



## CRYSTAL STRUCTURE OF KETOPANTOATE HYDROXYMETHYLTRANSFERASE

### Field of the Invention

The present invention relates to the enzyme ketopantoate hydroxymethyltransferase (KPHMT), and in particular its crystal structure and the use of this structure in drug discovery.

### Background of the Invention

Pantothenic acid (vitamin B<sub>5</sub>) is found in coenzyme A (CoA) and the acyl carrier protein (ACP), both of which are involved in fatty acid metabolism.

Pantothenic acid can be synthesised by plants and microorganisms but animals are apparently unable to make the vitamin, and require it in their diet. However, all organisms are able to convert pantothenic acid to its metabolically active form, coenzyme A.

The pathway for the synthesis of pantothenic acid is shown in Figure 1. It provides a potential target for the treatment of infectious disease, since inhibitors of the pathway should be damaging to bacteria and fungi but not to human or animal subjects infected by such microorganisms.

Of specific interest is ketopantoate hydroxymethyltransferase (KPHMT (SEQ ID NOS: 7-11, for example); 5,10-methylenetetrahydrofolate:  $\alpha$ -ketoisovalerate hydroxymethyltransferase, EC 2.1.2.11). Powers et al. (1) showed that KPHMT (SEQ ID NOS: 7-11, for example) is a class II aldolase that utilizes 5,10-CH<sub>2</sub>-H<sub>4</sub>folate (mTHF) to transfer a hydroxymethyl group to  $\alpha$ -ketoisovalerate ( $\alpha$ -KIVA) and thereby form ketopantoate, as shown in Figure 2. This is the first step in pantothenic acid biosynthesis. Inhibitors (whether competitive, non-competitive, uncompetitive or irreversible) of KPHMT (SEQ ID NOS: 7-11, for example) would be of significant technical and commercial interest.

KPHMT (SEQ ID NOS: 7-11, for example) from *Escherichia coli* has been cloned and over-expressed in *E. coli.*, and was the

first sequence of a pantothenate enzyme to be determined (2). The recombinant protein has 264 amino acids, corresponding to a molecular weight of 28,237 Da. The oligomeric state of the enzyme appears to be organism specific. The homologue from the lower eukaryote, *Aspergillus nidulans*, has been expressed in an active form in *E. coli* and shown to be an octamer by gel filtration chromatography (3). However, the *E. coli* enzyme, was found to be a decamer by sedimentation equilibrium experiments, gel filtration chromatography and polyacrylamide gel electrophoresis under native conditions (1).

Very little is known about the mode of action of KPHMT (SEQ ID NOs: 7-11, for example), except that the addition of the hydroxymethyl group proceeds with retention of configuration (4).  $Mg^{2+}$  is essential for activity, whilst metal reconstitution experiments with  $Mn^{2+}$ ,  $Co^{2+}$  and  $Zn^{2+}$  give enzyme with progressively less activity (1). To date, five ketopantoate auxotrophs, from *E. coli*, *A. nidulans*, *Datura innoxia* and two from *Salmonella typhimurium*, have been identified (5)(6). Four of these (from *E. coli*, *A. nidulans*, and the two from *Salmonella typhimurium*) have been shown to have defects in the *panB* gene which encodes KPHMT (SEQ ID NOs: 7-11, for example). The fifth (from the plant, *D. innoxia*) is suspected to have a *panB* defect (6). The *A. nidulans* auxotroph is caused by a deletion of Gly 168 (corresponding to Gly 205 in *E. coli*).

Until now no one has successfully determined the structure of KPHMT (SEQ ID NOs: 7-11, for example). This has prevented KPHMT (SEQ ID NOs: 7-11, for example) inhibitors being developed via structure-based drug design methodologies. Therefore, knowledge of the structure of KPHMT (SEQ ID NOs: 7-11, for example) would significantly assist the rational design of novel therapeutics based on KPHMT (SEQ ID NOs: 7-11, for example) inhibitors.

### Definitions

In the following by "binding site" we mean a site (such as an atom, a functional group of an amino acid residue or a plurality of such atoms and/or groups) in a KPHMT (SEQ ID NOs: 7-11, for example) binding cavity which may bind to an agent compound such as a candidate inhibitor. Depending on the particular molecule in the cavity, sites may exhibit attractive or repulsive binding interactions, brought about by charge, steric considerations and the like.

By "fitting", is meant determining by automatic, or semi-automatic means, interactions between one or more atoms of an agent molecule and one or more atoms or binding sites of the KPHMT (SEQ ID NOs: 7-11, for example), and calculating the extent to which such interactions are stable. Various computer-based methods for fitting are described further herein.

By "root mean square deviation" we mean the square root of the arithmetic mean of the squares of the deviations from the mean.

By a "computer system" we mean the hardware means, software means and data storage means used to analyse atomic coordinate data. The minimum hardware means of the computer-based systems of the present invention comprises a central processing unit (CPU), input means, output means and data storage means. Desirably a monitor is provided to visualise structure data. The data storage means may be RAM or means for accessing computer readable media of the invention. Examples of such systems are microcomputer workstations available from Silicon Graphics Incorporated and Sun Microsystems running Unix based, Windows NT or IBM OS/2 operating systems.

By "computer readable media" we mean any media which can be read and accessed directly by a computer e.g. so that the media is suitable for use in the above-mentioned computer system. Such media include, but are not limited to: magnetic storage media such as floppy discs, hard disc storage medium and magnetic tape; optical storage media such as optical discs or

CD-ROM; electrical storage media such as RAM and ROM; and hybrids of these categories such as magnetic/optical storage media.

#### Summary of the Invention

The present invention is at least partly based on overcoming several technical hurdles: we have (i) produced KPHMT (SEQ ID NOS: 7-11, for example) crystals of suitable quality, including crystals of selenium atom KPHMT (SEQ ID NOS: 7-11, for example) derivatives, for performing X-ray diffraction analyses, (ii) collected X-ray diffraction data from the crystals, (iii) determined the three-dimensional structure of KPHMT (SEQ ID NOS: 7-11, for example), and (iv) identified binding sites on the enzyme which are likely to be involved in the enzymatic reaction.

In general aspects, the present invention is concerned with identifying or obtaining agent compounds (especially inhibitors of KPHMT (SEQ ID NOS: 7-11, for example)) for modulating KPHMT (SEQ ID NOS: 7-11, for example) activity, and in preferred embodiments identifying or obtaining actual agent compounds/inhibitors. Crystal structure information presented herein is useful in designing potential inhibitors and modelling them or their potential interaction with the KPHMT (SEQ ID NOS: 7-11, for example) binding cavity. Potential inhibitors may be brought into contact with KPHMT (SEQ ID NOS: 7-11, for example) to test for ability to interact with the KPHMT (SEQ ID NOS: 7-11, for example) binding cavity. Actual inhibitors may be identified from among potential inhibitors synthesized following design and model work performed *in silico*. An inhibitor identified using the present invention may be formulated into a composition, for instance a composition comprising a pharmaceutically acceptable excipient, and may be used in the manufacture of a medicament for use in a method of treatment. These and other aspects and embodiments of the present invention are discussed below.



In a first aspect, the present invention provides a crystal of KPHMT (SEQ ID NOs: 7-11, for example) having a monoclinic space group  $P2_1$ , and unit cell dimensions of  $a = 86.1 \text{ \AA}$ ,  $b = 157.2 \text{ \AA}$ ,  $c = 100.2 \text{ \AA}$  and  $\beta = 97.4^\circ$ , or more generally  $a = 86.1 \pm 0.2 \text{ \AA}$ ,  $b = 157.2 \pm 0.2 \text{ \AA}$ ,  $c = 100.2 \pm 0.2 \text{ \AA}$  and  $\beta = 97.4 \pm 0.2^\circ$ .

We have found that the asymmetric unit of such a crystal corresponds to a KPHMT (SEQ ID NOs: 7-11, for example) decamer which may be thought of as a pentamer of KPHMT (SEQ ID NOs: 7-11, for example) dimers, the dimers being related by a non-crystallographic five-fold axis

Alternatively, or additionally, the crystal may have the three dimensional atomic coordinates of Table 1. An advantageous feature of the structural data according to Table 1 are that they have a high resolution of about  $1.8 \text{ \AA}$ .

The coordinates of Table 1 provide a measure of atomic location in Angstroms, to a first decimal place. The coordinates are a relative set of positions that define a shape in three dimensions, so it is possible that an entirely different set of coordinates having a different origin and/or axes could define a similar or identical shape. Furthermore, varying the relative atomic positions of the atoms of the structure so that the root mean square deviation of the residue backbone atoms (i.e. the nitrogen-carbon-carbon backbone atoms of the protein amino acid residues) is less than  $1.5 \text{ \AA}$  (preferably less than  $1.0 \text{ \AA}$  and more preferably less than  $0.5 \text{ \AA}$ ) when superimposed on the coordinates provided in Table 1 for the residue backbone atoms, will generally result in a structure which is substantially the same as the structure of Table 1 in terms of both its structural characteristics and potency for structure-based design of KPHMT (SEQ ID NOs: 7-11, for example) inhibitors. Likewise changing the number and/or positions of the water molecules and/or substrate molecules of Table 1 will not generally affect the potency of the structure for structure-based design of KPHMT (SEQ ID NOs: 7-11, for example) inhibitors. Thus for the purposes described herein as being aspects of the present

invention, it is within the scope of the invention if: the Table 1 coordinates are transposed to a different origin and/or axes; the relative atomic positions of the atoms of the structure are varied so that the root mean square deviation of residue backbone atoms is less than 1.5 Å (preferably less than 1.0 Å and more preferably less than 0.5 Å) when superimposed on the coordinates provided in Table 1 for the residue backbone atoms; and/or the number and/or positions of water molecules and/or substrate molecules is varied. Reference herein to the coordinate data of Table 1 thus includes the coordinate data in which one or more individual values of the Table are varied in this way.

Also, modifications in the KPHMT (SEQ ID NOs: 7-11, for example) crystal structure due to e.g. mutations, additions, substitutions, and/or deletions of amino acid residues (including the deletion of one or more KPHMT (SEQ ID NOs: 7-11, for example) protomers) could account for variations in the KPHMT (SEQ ID NOs: 7-11, for example) atomic coordinates. However, atomic coordinate data of KPHMT (SEQ ID NOs: 7-11, for example) modified so that a ligand that bound to one or more binding sites of KPHMT (SEQ ID NOs: 7-11, for example) would be expected to bind to the corresponding binding sites of the modified KPHMT (SEQ ID NOs: 7-11, for example) are, for the purposes described herein as being aspects of the present invention, also within the scope of the invention. Reference herein to the coordinates of Table 1 thus includes the coordinates modified in this way. Preferably, the modified coordinate data define at least one KPHMT (SEQ ID NOs: 7-11, for example) binding cavity.

In a further aspect, the invention provides a method for crystallizing a selenomethionine KPHMT (SEQ ID NOs: 7-11, for example) derivative which comprises producing KPHMT (SEQ ID NOs: 7-11, for example) by recombinant production in a bacterial host (e.g. *E. coli*) in the presence of selenomethionine, recovering a selenomethionine KPHMT (SEQ ID NOs: 7-11, for example)

derivative from the host and growing crystals from the recovered selenomethionine KPHMT (SEQ ID NOs: 7-11, for example) derivative.

Thus, the selenium atom KPHMT (SEQ ID NOs: 7-11, for example) derivative and KPHMT (SEQ ID NOs: 7-11, for example) produced by crystallising native KPHMT (SEQ ID NOs: 7-11, for example) (see the detailed description below) are provided as crystallised proteins suitable for X-ray diffraction analysis.

The crystals may be grown by any suitable method, e.g. the hanging drop method.

In another aspect, the invention provides a method of analysing a KPHMT (SEQ ID NOs: 7-11, for example)-ligand complex comprising the step of employing (i) X-ray crystallographic diffraction data from the KPHMT (SEQ ID NOs: 7-11, for example)-ligand complex and (ii) a three-dimensional structure of KPHMT (SEQ ID NOs: 7-11, for example) to generate a difference Fourier electron density map of the complex, the three-dimensional structure being defined by atomic coordinate data according to Table 1.

Therefore, KPHMT (SEQ ID NOs: 7-11, for example)-ligand complexes can be crystallised and analysed using X-ray diffraction methods, e.g. according to the approach described by Greer *et al.*, *J. of Medicinal Chemistry*, Vol. 37, (1994), 1035-1054, and difference Fourier electron density maps can be calculated based on X-ray diffraction patterns of soaked or co-crystallised KPHMT (SEQ ID NOs: 7-11, for example) and the solved structure of un-complexed KPHMT (SEQ ID NOs: 7-11, for example). These maps can then be used to determine whether and where a particular ligand binds to KPHMT (SEQ ID NOs: 7-11, for example) and/or changes the conformation of KPHMT (SEQ ID NOs: 7-11, for example).

Electron density maps can be calculated using programs such as those from the CCP4 computing package (Collaborative Computational Project 4. The CCP4 Suite: Programs for Protein Crystallography, *Acta Crystallographica*, D50, (1994), 760-763.).

For map visualisation and model building programs such as O (Jones et al., *Acta Crystallography*, A47, (1991), 110-119) can be used.

In another aspect, the present invention provides a method for identifying an agent compound (e.g. an inhibitor) which modulates KPHMT (SEQ ID NOS: 7-11, for example) activity, comprising the steps of:

(a) employing three-dimensional atomic coordinate data according to Table 1 to characterise at least a plurality of KPHMT (SEQ ID NOS: 7-11, for example) binding sites;

(b) providing the structure of a candidate agent compound;

(c) fitting the candidate agent compound to the binding sites; and

(d) selecting the candidate agent compound.

Preferably sufficient binding sites are characterised to define a KPHMT (SEQ ID NOS: 7-11, for example) binding cavity.

A plurality (for example two, three or four) of spaced KPHMT (SEQ ID NOS: 7-11, for example) binding sites may be characterised and a plurality of respective compounds designed or selected. The agent compound may then be formed by linking the respective compounds into a larger compound which maintains the relative positions and orientations of the respective compounds at the binding sites. The larger compound may be formed as a real molecule or by computer modelling.

In any event, the determination of the three-dimensional structure of KPHMT (SEQ ID NOS: 7-11, for example) provides a basis for the identification of new and specific ligands for KPHMT (SEQ ID NOS: 7-11, for example) e.g. by computer modelling.

More specifically, a potential modulator of KPHMT (SEQ ID NOS: 7-11, for example) activity can be examined through the use of computer modelling using a docking program such as GRAM, DOCK, or AUTODOCK (see Walters et al., *Drug Discovery Today*, Vol.3, No.4, (1998), 160-178, and Dunbrack et al., *Folding and Design*, 2, (1997), 27-42). This procedure can include computer

fitting of candidate inhibitors to KPHMT (SEQ ID NOs: 7-11, for example) to ascertain how well the shape and the chemical structure of the candidate inhibitor will bind to the enzyme.

Also computer-assisted, manual examination of the binding cavity structure of KPHMT (SEQ ID NOs: 7-11, for example) may be performed. The use of programs such as GRID (Goodford, *J. Med. Chem.*, 28, (1985), 849-857) - a program that determines probable interaction sites between molecules with various functional groups and the enzyme surface - may also be used to analyse the binding cavity to predict partial structures of inhibiting compounds.

Computer programs can be employed to estimate the attraction, repulsion, and steric hindrance of the two binding partners (e.g. the KPHMT (SEQ ID NOs: 7-11, for example) and a candidate inhibitor). Generally the tighter the fit, the fewer the steric hindrances, and the greater the attractive forces, the more potent the potential modulator since these properties are consistent with a tighter binding constant. Furthermore, the more specificity in the design of a potential drug, the more likely it is that the drug will not interact with other proteins as well. This will tend to minimise potential side-effects due to unwanted interactions with other proteins.

In one embodiment a plurality of candidate agent compounds are screened or interrogated for interaction with the binding sites. In one example, step (b) involves providing the structures of the candidate agent compounds, each of which is then fitted in step (c) to computationally screen a database of compounds (such as the Cambridge Structural Database) for interaction with the binding sites. In another example, a 3-D descriptor for the agent compound is derived, the descriptor including e.g. geometric and functional constraints derived from the architecture and chemical nature of the binding cavity. The descriptor may then be used to interrogate the compound database, the identified agent compound being the compound which

matches with the features of the descriptor. In effect, the descriptor is a type of virtual pharmacophore.

Having designed or selected possible binding partners, these can then be screened for activity. Consequently, the method preferably comprises the further steps of:

(e) obtaining or synthesising the candidate agent compound; and

(f) contacting the candidate agent compound with KPHMT (SEQ ID NOS: 7-11, for example) to determine the ability of the candidate agent compound to interact with KPHMT (SEQ ID NOS: 7-11, for example).

In step (e) the candidate agent compound may be contacted with KPHMT (SEQ ID NOS: 7-11, for example) in the presence of a substrate, and typically a buffer, to determine the ability of the candidate agent compound to inhibit KPHMT (SEQ ID NOS: 7-11, for example). The substrate may be e.g., one or both of 5,10-CH<sub>2</sub>-H<sub>4</sub>folate,  $\alpha$ -ketoisovalerate, or salts thereof. So, for example, an assay mixture for KPHMT (SEQ ID NOS: 7-11, for example) may be produced which comprises the candidate inhibitor, substrate and buffer.

Instead of, or in addition to, performing e.g. a chemical assay, the method may comprise the further steps of:

(e) obtaining or synthesising the candidate agent compound;

(f) forming a complex of KPHMT (SEQ ID NOS: 7-11, for example) and the candidate agent compound; and

(g) analysing (e.g. by the method of an earlier aspect of the invention) said complex by X-ray crystallography or NMR spectroscopy to determine the ability of the candidate agent compound to interact with KPHMT (SEQ ID NOS: 7-11, for example).

Detailed structural information can then be obtained about the binding of the agent compound to KPHMT (SEQ ID NOS: 7-11, for example), and in the light of this information adjustments can be made to the structure or functionality of the compound, e.g. to improve binding to the binding cavity. Steps (e) to (g) may be repeated and re-repeated as necessary. For X-ray

crystallographic analysis, the complex may be formed by crystal soaking or co-crystallisation.

In another aspect, the invention includes a compound which is identified as a modulator of KPHMT (SEQ ID NOs: 7-11, for example) activity by the method of the fourth aspect.

Following identification of an inhibitor compound, it may be manufactured and/or used in the preparation, i.e. manufacture or formulation, of a composition such as a medicament, pharmaceutical composition or drug. These may be administered to individuals.

Thus, the present invention extends in various aspects not only to an inhibitor as provided by the invention, but also a pharmaceutical composition, medicament, drug or other composition comprising such an inhibitor e.g. for treatment (which may include preventative treatment) of disease such as microbial infection; a method comprising administration of such a composition to a patient, e.g. for treatment of disease such as microbial infection; use of such an inhibitor in the manufacture of a composition for administration, e.g. for treatment of disease such as microbial infection; and a method of making a pharmaceutical composition comprising admixing such an inhibitor with a pharmaceutically acceptable excipient, vehicle or carrier, and optionally other ingredients.

In another aspect, the invention relates to a method of determining three dimensional structures of KPHMT (SEQ ID NOs: 7-11, for example) homologues of unknown structure by utilising the structural coordinates of Table 1.

For example, if X-ray crystallographic or NMR spectroscopic data is provided for a KPHMT (SEQ ID NOs: 7-11, for example) homologue of unknown structure, the structure of KPHMT (SEQ ID NOs: 7-11, for example) as defined by Table 1 may be used to interpret that data to provide a likely structure for the KPHMT (SEQ ID NOs: 7-11, for example) homologue by techniques which are well known in the art, e.g. phase modelling in the case of X-ray crystallography.

One embodiment of the method comprises the steps of:

(a) aligning a representation of an amino acid sequence of a KPHMT (SEQ ID NOs: 7-11, for example) homologue of unknown structure with the amino acid sequence of KPHMT (SEQ ID NOs: 7-11, for example) to match homologous regions of the amino acid sequences;

(b) modelling the structure of the matched homologous regions of the KPHMT (SEQ ID NOs: 7-11, for example) of unknown structure on the structure as defined by Table 1 of the corresponding regions of KPHMT (SEQ ID NOs: 7-11, for example); and

(c) determining a conformation (e.g. so that favourable interactions are formed within the KPHMT (SEQ ID NOs: 7-11, for example) of unknown structure and/or so that a low energy conformation is formed) for the KPHMT (SEQ ID NOs: 7-11, for example) of unknown structure which substantially preserves the structure of said matched homologous regions.

The term "homologous regions" describes amino acid residues in two sequences that are identical or have similar (e.g. aliphatic, aromatic, polar, negatively charged, or positively charged) side-chain chemical groups. Identical and similar residues in homologous regions are sometimes described as being respectively "invariant" and "conserved" by those skilled in the art.

Preferably one or all of steps (a) to (c) are performed by computer modelling.

Homology modelling is a technique that is well known to those skilled in the art (see e.g. Greer, *Science*, Vol. 228, (1985), 1055, and Blundell et al., *Eur. J. Biochem*, Vol. 172, (1988), 513).

In general, comparison of amino acid sequences is accomplished by aligning the amino acid sequence of a polypeptide of a known structure with the amino acid sequence of the polypeptide of unknown structure. Amino acids in the sequences are then compared and groups of amino acids that are



homologous are grouped together. This method detects conserved regions of the polypeptides and accounts for amino acid insertions or deletions.

Homology between amino acid sequences can be determined using commercially available algorithms. The programs *BLAST*, *gapped BLAST*, *BLASTN* and *PSI-BLAST* (provided by the National Center for Biotechnology Information) are widely used in the art for this purpose, and can align homologous regions of two amino acid sequences.

Once the amino acid sequences of the polypeptides with known and unknown structures are aligned, the structures of the conserved amino acids in a computer representation of the polypeptide with known structure are transferred to the corresponding amino acids of the polypeptide whose structure is unknown. For example, a tyrosine in the amino acid sequence of known structure may be replaced by a phenylalanine, the corresponding homologous amino acid in the amino acid sequence of unknown structure.

The structures of amino acids located in non-conserved regions may be assigned manually by using standard peptide geometries or by molecular simulation techniques, such as molecular dynamics (7). The final step in the process is accomplished by refining the entire structure using molecular dynamics and/or energy minimization.

In another aspect, the present invention provides systems, particularly a computer systems, intended to generate structures and/or perform rational drug design for KPHMT (SEQ ID NOs: 7-11, for example), KPHMT (SEQ ID NOs: 7-11, for example)-ligand complexes or KPHMT (SEQ ID NOs: 7-11, for example) homologues, the systems containing either (a) atomic coordinate data according to Table 1, said data defining the three-dimensional structure of KPHMT (SEQ ID NOs: 7-11, for example), or (b) structure factor data for KPHMT (SEQ ID NOs: 7-11, for example), said structure factor data being derivable from the atomic coordinate data of Table 1.

In another aspect, the present invention provides computer readable media with either (a) atomic coordinate data according to Table 1 recorded thereon, said data defining the three-dimensional structure of KPHMT (SEQ ID NOs: 7-11, for example), or (b) structure factor data for KPHMT (SEQ ID NOs: 7-11, for example) recorded thereon, the structure factor data being derivable from the atomic coordinate data of Table 1.

By providing such computer readable media, the atomic coordinate data can be routinely accessed to model KPHMT (SEQ ID NOs: 7-11, for example). For example, RASMOL (Sayle *et al.*, *TIBS*, Vol. 20, (1995), 374) is a publicly available computer software package which allows access and analysis of atomic coordinate data for structure determination and/or rational drug design.

On the other hand, structure factor data, which are derivable from atomic coordinate data (see e.g. Blundell *et al.*, in *Protein Crystallography*, Academic Press, New York, London and San Francisco, (1976)), are particularly useful for calculating e.g. difference Fourier electron density maps.

#### Brief Description of the Drawings

Figure 1 shows the pathway for the synthesis of pantothenic acid;

Figure 2 shows the chemical reaction between  $\alpha$ -KIVA and 5,10-CH<sub>2</sub>-H<sub>4</sub>folate which is catalysed by KPHMT (SEQ ID NOs: 7-11, for example);

Figures 3a and b show ribbon representations of the decameric structure as viewed respectively along and from the side of the non-crystallographic five-fold axis;

Figures 4a and b show ribbon representations of respectively top and side views of a protomer;

Figure 5 shows a sequence alignment between primary structure among five members of the KPHMT (SEQ ID NOs: 7-11, for example) family and the secondary structure of the *E. coli* enzyme (SEQ ID NOs: 7-12, respectively);

Figure 6 shows a stereo pair wire-frame electron density map of the substrate binding site with a ketopantoate product molecule (KPL) and a metal ion believed to be  $Mg^{2+}$  on which the enzyme is dependent for its activity;

Figure 7 shows an electrostatic potential map for a protomer viewed looking towards the opening mouth of the binding cavity;

Figure 8 shows a stereo pair ribbon representation of the KPHMT (SEQ ID NOS: 7-11, for example) binding cavity;

Figure 9 shows a schematic representation of the distorted octahedral binding site for  $Mg^{2+}$  in the KPHMT (SEQ ID NOS: 7-11, for example) binding cavity;

Figures 10 and b show respectively side and top view stereo pair ribbon representations of the mouth of the KPHMT (SEQ ID NOS: 7-11, FOR EXAMPLE) binding cavity; and

Figures 11a and b show stereo pair ribbon representations of respectively (a) the binding cavities of a KPHMT (SEQ ID NOS: 7-11, for example) dimer, and (b) the interface between adjacent KPHMT dimers.

#### Detailed Description of the Invention

The present invention is founded on the determination of the three dimensional atomic structure of KPHMT (SEQ ID NOS: 7-11, for example).

#### *Solving the Crystal Structure*

1. Preparation of Recombinant KPHMT (SEQ ID NOS: 7-11, for example) Protein

##### *Cell Growth*

3 x 15 mL starting culture of *E-coli* Hfr3000-YA139 cells with the plasmid pCEJ01 containing the clone pAL01 was incubated at 37 °C overnight in LB broth containing ampicillin (50 mg/mL). This was added to 3 litres of LB broth containing ampicillin (50 mg/mL) and IPTG (90 mg/mL) and incubated at 37 °C for 16 h. Selenomethionine (SeMet) protein was over-expressed in media

containing selenomethionine, as well as six other amino acids (lysine, phenylalanine, threonine, isoleucine, leucine and valine) whose presence inhibit methionine biosynthesis (8) and was purified in the same way as the wild type. The cells were harvested by centrifugation at 10,000 rpm at 4 °C for 30 min. The wet cell pellet weighed approximately 9 g.

#### *Protein Extraction*

The cell pellet was resuspended in 50 mL of 100 mM phosphate buffer (pH 7) containing 1 mM DTT, 1 mM ethylenediaminetetraacetic acid (EDTA) and 1 mM phenylmethylsulphonylfluoride (PMSF). The suspension was sonicated on ice for 1 s bursts every 3 s for 12 min and the lysate centrifuged at 12,000 rpm for 30 min. Nucleic acids were removed from the supernatant by precipitation with 2% protamine sulphate (1 mL/g of cell pellet) and centrifugation at 12,000 rpm for 30 min.

The protein was precipitated from the supernatant with ammonium sulphate (25 - 60% saturation) and centrifugation at 12,000 rpm for 30 min. The protein pellet was dissolved in 30 mL of 100 mM phosphate buffer (pH 7) containing 1 mM DTT and 1 mM EDTA and dialysed, overnight against 25 mM phosphate buffer (pH 7) containing 1 mM DTT and 1 mM EDTA. The volume of the dialysed protein was reduced to below 20 mL by ultrafiltration.

Pellets that contained cell debris, 2% protamine sulphate precipitant and 0 - 25% ammonium sulphate precipitant were dissolved in a total volume of 30 mL of 100 mM phosphate buffer (pH 7) containing 1 mM DTT and 1 mM EDTA, pooled and dialysed, overnight, against 25 mM phosphate buffer (pH 7) containing 1 mM DTT and 1 mM EDTA. The volume of the dialysed mixture was reduced to below 20 mL by ultrafiltration and filtered through a 0.2 µm filter. The protein was purified by FPLC.

*Hiprep Q XL anion exchange chromatography*

The sample, in less than 10 mL, was loaded, using a 10 mL superloop, onto a Hiprep 16/10 Q XL column equilibrated in starting buffer which consisted of 90% buffer A, containing 50 mM potassium phosphate buffer (pH 6.9), 1 mM DDT and 1 mM EDTA, and 10% buffer B containing 50 mM potassium phosphate buffer (pH 6.9), 1 mM DDT and 1 mM EDTA and 1 M potassium chloride (KCl). KPHMT (SEQ ID NOs: 7-11, for example) was eluted in a step gradient of 0.1 - 1 M KCl in 12 column volumes (240 mL) and at a flow rate of 2.5 mL/min. The gradient was shaped as indicated below. KPHMT (SEQ ID NOs: 7-11, for example) eluted in a single peak at about 0.4 M KCl. Eluate fractions were assessed for KPHMT (SEQ ID NOs: 7-11, for example) content by SDS-PAGE. Fractions containing KPHMT (SEQ ID NOs: 7-11, for example) were pooled and dialysed overnight against starting buffer.

*Source 15Q anion exchange chromatography*

The sample, in less than 10 mL, was loaded, using a 10 mL superloop, onto a Source 15Q XV 16/10 column equilibrated in starting buffer which consisted of 90% buffer A, containing 25 mM potassium phosphate buffer (pH 6.9), 1 mM DDT and 1 mM EDTA, and 10% buffer B containing 25 mM potassium phosphate buffer (pH 6.9), 1 mM DDT and 1 mM EDTA and 1 M KCl. KPHMT (SEQ ID NOs: 7-11, for example) was eluted of the Source 15Q XV 16/10 column in the same way it was eluted of the Hiprep 16/10 Q XL column. KPHMT (SEQ ID NOs: 7-11, for example) eluted in a single peak at about 0.4 M potassium chloride.

Eluate fractions were assessed for KPHMT (SEQ ID NOs: 7-11, for example) content by SDS-PAGE. Fractions containing KPHMT (SEQ ID NOs: 7-11, for example) were pooled and dialysed overnight against starting buffer.

KCl gradient used in anion exchange chromatography of KPHMT (SEQ ID NOs: 7-11, for example):

step 1 - 0.1 to 0.4 M KCl (0 - 50 mL)

- step 2 - at 0.4 M KCl (50 - 110 mL)
- step 3 - 0.4 to 0.5 M KCl (110 - 120 mL)
- step 4 - at 0.5 M KCl (120 - 180 mL)
- step 5 - 0.5 to 1 M KCl (180 - 190 mL)
- step 6 - at 1 M KCl (190 - 240 mL)

#### *Hiload 16/60 superdex 200 pg gel filtration chromatography*

Sample was loaded in less than 10 mL onto a Hiload 16/60 superdex 200 pg equilibrated in buffer containing 50 mM potassium phosphate buffer (pH 6.9), 1 mM DDT and 1 mM EDTA. A constant flow rate of 0.5 mL per minute was maintained and 3 mL fractions were collected. Fractions containing KPHMT (SEQ ID NOs: 7-11, for example) were determined by SDS-PAGE, pooled and concentrated by ultrafiltration to greater than 5 mg/mL. 26 mg of protein was obtained from a 3 L cell culture.

## 2. Protein Crystallisation

The sample of KPHMT (SEQ ID NOs: 7-11, for example) was concentrated to 24 mg/ml in 40 mM of ketopantolactone (KPL; product) and 50 mM HEPES pH 7.4. Diffraction-quality single crystals of KPHMT (SEQ ID NOs: 7-11, for example) were obtained by the hanging-vapor diffusion method at 4 °C. To make a drop, one volume (1.5  $\mu$ l) of protein solution was placed on a siliconised cover slide, and the equivalent reservoir solution was added at 19 °C. Reservoir solution contained 9% (w/v) PEG 8000, 50 mM NaCitrate (pH 6.8), 50-100 mM Na(CH<sub>3</sub>CO<sub>2</sub>) and 200 mM NaCl. The plate was sealed within 1 minute and left at 4 °C. After 2 hours the plate was placed into a polystyrene box, then the box was sealed and placed at 19 °C. Single crystals with dimensions of about 0.5 x 0.3 x 0.1 mm appeared within one or two days. These belonged to the monoclinic space group P2<sub>1</sub> with cell parameters  $a = 86.1 \text{ \AA}$ ,  $b = 157.2 \text{ \AA}$ ,  $c = 100.2 \text{ \AA}$  and  $\beta = 97.4^\circ$ , and accommodated one decameric enzyme per asymmetric unit, with a solvent content of 49%.

The SeMet KPHMT (SEQ ID NOs: 7-11, for example) crystals, which were prepared in a similar way to native KPHMT (SEQ ID NOs: 7-11, for example) crystals, seldom grew larger than 0.3 mm or thicker than about 30  $\mu\text{m}$ . The SeMet KPHMT (SEQ ID NOs: 7-11, for example) stock solution contained 2 mM KPL and 10 mM DTT to protect the Se atoms from oxidation.

### 3. Data Collection

The structure of KPHMT (SEQ ID NOs: 7-11, for example) was solved by the MAD method (9) using the SeMet derivative. Data to 3.1  $\text{\AA}$  resolution were collected at 100 K, at three wavelengths on Station 19-ID of the Structural Biology Centre at the Advanced Photon Source of Argonne National Laboratory, Chicago, US. Crystals of KPHMT (SEQ ID NOs: 7-11, for example) were cryo-protected by a protocol of gradual soaking in the cryo-protectant PEG400. Each crystal was placed in 20 ml of crystallisation solution, and the concentration of PEG400 was gradually increased to 20% (v/v) in 5% increments. The soaking time at each PEG400 concentration was a minimum of 15 minutes. At each concentration step, KPL was added to a concentration of 2 mM. The flash-cooled crystals were used for data collection.

An X-ray fluorescence spectrum was recorded and used to select wavelengths for subsequent MAD data collection. Data were collected at the Se absorption edge  $\lambda_e = 0.97939 \text{ \AA}$ , the absorption peak  $\lambda_p = 0.97927 \text{ \AA}$  and at remote reference wavelength  $\lambda_r = 0.9393 \text{ \AA}$ . The diffraction data were indexed and integrated using the *D\*TREK* suite (10), and reflexions were indexed and integrated using *MOSFLM* (11). The three data sets were scaled to the remote data-set using *SCALA* (12) and structure-factor amplitudes were calculated using *TRUNCATE* (13). Statistics of the processed data are listed in Table 2.

The native data set was collected to 1.8  $\text{\AA}$  resolution on Station 19-ID. A cryo-protectant solution for the native crystals contained 9% PEG8000, 50 mM NaCitrate (pH 6.8), 50-100 mM  $\text{Na}(\text{CH}_3\text{CO}_2)$ , 200 mM NaCl, and 20% of PEG400.

#### 4. Structure Determination and Refinement

160 out of the 180 Se sites in the asymmetric unit were found with the program *SnB* (14) using direct methods and anomalous difference data of  $\lambda$ p SeMet. Data were phased with *SHARP* (15) using all three wavelength data sets, which also revealed two additional Se sites in the residual maps.

Data collected at the remote wavelength were treated as the reference data set and resolution limits of 40 to 2.3 Å were imposed. Experimental values of the anomalous dispersion ( $f'$  and  $f''$  in Table 2) estimated from fluorescence spectra were used and refined during analysis. The resulting values are very similar to the theoretical values and are given in Table 2. Experimental phases were improved by solvent flattening using *SOLOMON* (CCP4, 1994), via the *SUSHI* graphical user interface (La Fortelle et al., 1997) with a solvent content of 430%. The final electron-density map was easily interpretable and the whole polypeptide chain was assigned based on the initial electron density map.

The polypeptide chain was fitted in the MAD electron density map using program *O* (16). Rounds of maximum likelihood refinement with *REFMAC* (17) were alternated with visual inspection of electron density and manual rebuilding of side chains. Several rounds of simulated annealing with *CNS* (18) were included to refine the position of the main chain properly.

Table 1 provides the atomic coordinates of the final model.

The quality of the final model was assessed from Ramachandran plots and the analysis of the model geometry was carried out with the program *PROCHECK* (19). 10% of the reflections were set aside for  $R_{\text{free}}$  calculations. The plot indicated that 90.2% of the residues lay in the favourable regions and 9.8% in the allowed regions. The final  $R$  and  $R_{\text{free}}$  factors of the structure for all reflections between 75.0 and 1.8 Å resolutions were 0.229 and 0.263, respectively. The structural model for KPHMT (SEQ ID NOs: 7-11, for example)



consists of a decamer in the asymmetric unit with 2,640 amino residues, 19,830 protein atoms (non-hydrogen), 100 substrate atoms (non-hydrogen), 1,612 water molecules and 10 metal ions. The last cycle of the refinement without NCS-restraints gave a reasonable stereo-chemistry by using 229,076 unique reflections in the range of 75.0 to 1.8 Å resolution. The root mean-square deviation from standard values are 0.006 Å in bond distances (1-2 distance), 1.2° in angle distances (1-3 distance), and 22.1° in dihedral angles (planar 1-4 distance). From a Ramachandran plot the model was considered to exhibit a good stereo-chemistry.

#### *Structural Characterisation*

The crystal structure of KPHMT (SEQ ID NOs: 7-11, for example) is based on a decameric asymmetric unit formed by a pentamer of dimers related by a non-crystallographic five-fold axis. Figures 3a and b show ribbon representations of the decameric structure as viewed respectively along and from the side of the non-crystallographic five-fold axis.

The dimensions of the decamer are approximately 100 x 100 x 75 Å. The accessible area of the decamer, 83,200 Å<sup>2</sup>, is small considering the surface area for each protomer (i.e. monomer subunit), 10,800 Å<sup>2</sup>, while the buried surface of each protomer is 23%. The close packing of the protomers explains the protein's remarkable resistance to denaturation by heat and urea (20). The interface between protomers in each dimeric unit is large (1140 Å<sup>2</sup>) and tightly organised, involving 88 (20 hydrophilic and 68 hydrophobic) interactions. However, the interface between protomers in the pentamer is smaller (760 Å<sup>2</sup>) and involves only 20 (6 hydrophilic and 14 hydrophobic) interactions. For this reason, we believe that the dimer is the functional unit. This is corroborated by the homologue from *Aspergillus nidulans*, which is an octamer (3).

Each protomer is approximately spherical and has overall dimensions of 50 x 50 x 40 Å. Ribbon representation top and

side views of a protomer are presented in Figures 4c and d. The tertiary structure is an  $\alpha_8\beta_8$  (TIM (triose phosphate isomerase) barrel with an extra  $\alpha$ -helix located at the base of the  $\beta$ -barrel (21). The barrel consists of eight parallel  $\beta$ -strands surrounded by eight  $\alpha$ -helices.

### Sequence Alignment

35 proteins or translated gene-sequences have been identified using a PSI-BLAST search, with high enough similarity to be classified as members of the KPHMT (SEQ ID NOs: 7-11, for example) family (22). The enzyme is found in bacteria, lower eukaryotes (e.g. yeast) and in the plant *Arabidopsis thaliana* but is not found in *Caenorhabditis elegans*, *Drosophila melanogaster* or, as yet, in other higher eukaryotes. This is consistent with the end product of this pathway being a vitamin. We have analyzed the sequences from the 35 members of this family to identify residues important to the mode of action. Correlation between primary structure among five members of the KPHMT (SEQ ID NOs: 7-11, for example) family and the secondary structure of the *E. coli* enzyme is shown in Figure 5 (SEQ ID NOs: 7-12, respectively). The consensus sequence, generated by ClustalW (23) with the sequences of the 35 members, highlights that of the 264 residues, 23 residues are invariant while an additional 77 are conserved. Six conserved sequence motifs, at least six residues in length, were also identified. These are <sup>42</sup>LeuValGlyAspSerLeuGlyMet<sup>49</sup> (SEQ ID NO:1), <sup>111</sup>ValLysIleGluGlyGly<sup>116</sup> (SEQ ID NO:2), <sup>135</sup>GlyHisXGlyLeuThrProGln<sup>142</sup> (SEQ ID NO:3) (where X is a hydrophobic residue), <sup>148</sup>GlyGlyTyrLysValGlnGly<sup>154</sup> (SEQ ID NO:4), <sup>200</sup>IleGlyIleGlyAlaGly<sup>205</sup> (SEQ ID NO:5) and <sup>209</sup>AspGlyAsnIleLeuVal<sup>214</sup> (SEQ ID NO:6). The first two of the six motifs contain residues shown in the crystal structure to be involved in binding the ketopantoate (and hence the substrate) or metal ion.

Deletion of residue Gly 168 (which corresponds to Gly 205 in the fifth motif given above) in *A. nidulans* has been shown to

prevent cell growth (3). This residue is invariant in 34 out of the 35 KPHMT (SEQ ID NOs: 7-11, for example) sequences and mutated to serine in a potentially inactive isoform from *Pseudomonas aeruginosa*. Thus, the motif may be required for correct folding of the protein.

#### *Substrate Binding Site*

The substrate binding site is located in a large cavity at the protein C-terminus ends of the  $\beta$ -strands. The cavity extends almost one quarter the distance in to the protein and is about 20 Å in length and about 10 Å x 15 Å in transverse section. The substrate is believed to bind before the cofactor, because the cofactor binds at the mouth of the cavity effectively blocking access to the cavity. Figure 6 is a stereo pair wire-frame electron density map of the substrate binding site showing a ketopantoate product molecule (KPL) and a metal ion believed to be  $Mg^{2+}$  on which the enzyme is dependent for its activity.

The electrostatic potential map for a protomer (shown in Figure 7) demonstrates that the opening mouth of the binding cavity is highly charged. The surface contains eight highly conserved residues that hydrogen bond to each other and the substrate or product. As shown in Figure 8, which is a stereo pair ribbon representation of the binding cavity, Asp 45 and Asp 84 hydrogen bond to Gln 142 and Lys 112, respectively, while Ser 46, Glu 181 and Lys 112 hydrogen bond to ketopantoate and the residues Tyr 25, His 136 and Asp 84.

The  $Mg^{2+}$  ion is bound in a distorted octahedral binding site of the binding cavity. Residues, Asp 45 and Asp 84 occupy axial and equatorial positions, respectively, while Glu 114 coordinates to  $Mg^{2+}$  through a water molecule that occupies an equatorial position. The keto and carboxyl groups of the product take up an axial and an equatorial position, respectively and the last equatorial position is occupied by a

water molecule. Figure 9 shows a schematic representation of the distorted octahedral binding site.

The coordination around  $Mg^{2+}$  is distorted due to hydrogen bonding between Glu 181 and the hydroxymethyl group of the product. We believe the geometry of the  $Mg^{2+}$  ion is less distorted, and hence lower in stabilization energy, when ketopantoate (product) is replaced by  $\alpha$ -KIVA (substrate). This may be one mechanism by which the enzyme senses and releases the product.

#### *Cofactor Binding Site*

As yet, a 5,10- $CH_2$ - $H_4$ folate cofactor binding motif has not been identified by X-ray crystallography. Nonetheless, we have developed an approach to find the cofactor binding site.

Initially we compared our structure to structures of tetrahydrofolate-dependent enzymes bound to folate analogues. The January, 2001 release of the Protein Data Bank (PDB) contains seven enzymes that bind tetrahydrofolate (THF). These are dihydrofolate reductase (DHFR), phosphoribosylglycinamide formyltransferase (PRGF), methylenetetrahydrofolate dehydrogenase (MTDH), glycinamide ribonucleotide transformylase (GRTF), thymidylate synthase (TS), serine hydroxymethyl transferase (SHMT), and methylenetetrahydrofolate reductase (MTR). A structural similarity search by the program DALI (24) shows that only four of the above proteins appear to be similar to KPHMT (SEQ ID NOs: 7-11, for example). These are MTR, DHFR, PRGF and SHMT, but for MTR, DHFR and PRGF, the distance of the folate cofactor binding site is too far from the substrate binding site relative to the corresponding distance in KPHMT (SEQ ID NOs: 7-11, for example).

This left SHMT, which appears to be functionally similar to KPHMT (SEQ ID NOs: 7-11, for example), although SHMT is a class I aldolase (KPHMT (SEQ ID NOs: 7-11, for example) is a class II aldolase) because pyridoxal phosphate is used in addition to the folate cofactor. Given the crystal structures of SHMT from *E.*

*coli* bound to the folate, 5-formyl-THF (25) and TS bound to 5,10-CH<sub>2</sub>-H<sub>4</sub>folate or analogues thereof (26), we were able to propose a tentative model for the binding 5,10-CH<sub>2</sub>-H<sub>4</sub>folate to KPHMT (SEQ ID NOs: 7-11, for example).

Next, using multiple sequence alignment (see Figure 5) to identify residues implicated in cofactor binding, we were able to fine tune the proposed model for cofactor binding. The fine tuned model is shown in Figures 10a and b which are side and top view stereo pair ribbon representations of the mouth of the binding cavity.

In this model, 5,10-CH<sub>2</sub>-H<sub>4</sub>folate (mTHF) binds near the entrance to the binding cavity at a depth of 15Å. The distance between the target carbon atoms, C11 in 5,10-CH<sub>2</sub>-H<sub>4</sub>folate and C3 in the substrate, is about 4.5Å, a favourable distance for a reaction to occur.

The cofactor makes relatively few contacts with the protein. Interestingly, these contacts are located in regions of undefined secondary structure, namely, the loop regions that compose the entrance to the binding cavity. The loops in question are between β5 and α7 (L1), α9 and α10 (L2) and the C-terminus (L3). Being regions of undefined secondary structure these loops may be highly flexible and thus, undergo structural changes upon cofactor binding. We have identified conserved residues that impart either flexibility or make strong interactions that may impart rigidity (definition) to these loops. Thus we believe that upon cofactor binding these loops undergo discrete structural changes.

Loop, L1, contains two of the six above-mentioned conserved motifs. The first half of this loop, is located deeper in the binding cavity and contains Gln 142, which H-bonds to the axial Mg<sup>2+</sup> ligand, Asp 45. This half of the loop is probably rigid since it contains a turn between Asn 145 and Gly 149. The second half of the loop consists predominantly of the second motif. Both ends of this motif, namely residues Gly 148 (invariant) and Gly 154 may make this part of the loop flexible.

Gln 153 is implicated in a hydrogen bond to the amide of Lys 151, which upon cofactor binding may move to interact with the polyglutamate chain of the cofactor (see below for more discussion of this). Loop, L2, is relatively long with little sequence conservation. Invariant Gly 220 may impart some flexibility to this loop while residues Asp 217, Lys 228 and Phe 229 are implicated in binding the cofactor. In L3, invariant Pro 257 is in van der Waals contact with Gly 205 and Gln 211, while His 261 hydrogen bonds to Lys 228 and Glu 260. Thus, the deletion of Gly 168 in *A. nidulans* would lead to a distortion in the loop between  $\beta 7$  and  $\beta 8$  which may in turn lead to a disordering in adjacent loops such as L3 which could potentially prevent cofactor from binding. We, therefore propose that the *panB* auxotroph from *A. nidulans* is caused by the inability of the mutant KPHMT (SEQ ID NOs: 7-11, for example) enzyme to bind the cofactor and therefore to function.

There are four main protein-cofactor interactions, namely, three hydrogen bonds and a  $\pi$ -stacking interaction. The nitrogen atom at N2 of 5,10-CH<sub>2</sub>-H<sub>4</sub>folate hydrogen bonds to Asp 217, while the side chain carboxyl group of the first glutamate hydrogen bonds to the carboxyl group of Tyr 150, and Lys 228. A stronger interaction is a  $\pi$ -stacking or hydrophobic interaction between the *p*-aminobenzoic acid (PABA) ring of the cofactor and the highly conserved residues Tyr 150 and Phe 229. Tyr 150 or phenylalanine, which in this instance is a functional replacement, is found at this position in 31 out of the 35 KPHMT (SEQ ID NOs: 7-11, for example) sequences discussed above, while Phe 229 is found at this position in 34 out of the 35 KPHMT (SEQ ID NOs: 7-11, for example) sequences. Interestingly, crystal structures of the THF-dependent enzymes, TS and SHMT, with cofactor analogues bound, also implicate a  $\pi$ -stacking or hydrophobic interaction between the PABA ring and a tyrosine or phenylalanine (25). It would appear that nature has converged on this mechanism to bind folate cofactors.

Most folate-dependent enzymes have a higher affinity for the polyglutamate form of the folate cofactor, with the greatest increase in affinity occurring with two or three glutamate residues (27). Presumably, the polyglutamate tail increases the affinity for enzyme through interactions with surface positive charges. In the crystal structure of the bifunctional enzyme dihydrofolate reductase-thymidylate synthase from *Leishmania major*, the polyglutamate tail of dihydrofolate makes few specific contacts but rather is held in place by the positive charge of the local electrostatic field (28). We have identified four positive residues in KPHMT (SEQ ID NOs: 7-11, for example) that could interact with the polyglutamate tail. These are Lys 151, Arg 155 (in loop L1), Lys 231 (in loop L2) and His 261 (in loop L3).

#### *KPHMT (SEQ ID NOs: 7-11, for example) Catalysis*

KPHMT (SEQ ID NOs: 7-11, for example) catalyses the transfer of a hydroxymethyl group from cofactor (5,10-CH<sub>2</sub>-H<sub>4</sub>folate) to substrate ( $\alpha$ -KIVA). The transferase reaction is an aldol reaction, namely deprotonation of the C3- carbon of  $\alpha$ -KIVA followed by nucleophilic attack on the cofactor. The crystal structure of the apo enzyme gives insights in to the first stage in the enzyme mechanism, namely, activation of substrate and cofactor.

The C3 carbon is intrinsically acidic, through conjugation of the carboxyl and keto group, however, its acidity is enhanced by coordination of the substrate to the magnesium ion. Magnesium coordination also anchors and orients the substrate for subsequent deprotonation and nucleophilic attack. Also, the increase in distortion from octahedral geometry between substrate and product bound to the ion may be one mechanism by which the enzyme senses and releases product. The basic residue involved in abstraction of the C-3 proton of  $\alpha$ -KIVA is believed to be Glu 181. The basicity of this residue is enhanced by a network of hydrogen bonds connecting residue Glu 181 with

residues His 136 and Lys112, which constitute an invariant triad. In the crystal structure of the apo enzyme, Glu 181 is involved in a hydrogen bond with the hydroxymethyl group of the product ketopantoate - giving rise to the greater distortion from octahedral geometry. A final role for this versatile residue is as the acid in the protonation of N10 of 5,10-CH<sub>2</sub>-H<sub>4</sub>folate. Kallen and Jencks (29) have concluded that the reactive component of the 5,10-CH<sub>2</sub>-H<sub>4</sub>folate cofactor is the iminium intermediate, formed by breakage of the C11-N10-bond and protonation of N10. This is supported by the crystal structure of TS from *Lactobacillus casei* where the imidazolidine ring has opened and the iminium intermediate has been hydrated (26). Thus, Glu 181 is believed to abstract a proton from  $\alpha$ -KIVA and supply it to the cofactor.

#### *Evidence for Cooperativity*

KPHMT (SEQ ID NOS: 7-11, for example), the first enzyme in the pathway for the synthesis of pantothenic acid (see Figure 1), is inhibited by later intermediates, namely pantoate, pantothenate and CoA (1). This is most probably linked to the decameric architecture of the enzyme and involves multiple binding sites for effectors such as later pathway intermediates. All three, pantoate, pantothenate and CoA exhibit negative feedback, decreasing  $V_{\max}$ , increasing  $K_m$  and enhancing cooperativity for the substrate. We believe we have found evidence, albeit tentative, of communication between protomers, a pre-requisite for cooperativity.

As pointed out earlier, the interface between protomers in the dimeric unit is tightly organised, involving 88 (20 hydrophilic and 68 hydrophobic) interactions. In particular one network of hydrogen bonds links the binding cavities of the vertically adjacent protomers. In the crystal structure of the apo enzyme, the products in the two vertically adjacent binding cavities are separated by only 31 Å. The H-bond network extends from ketopantoate to Ser 46 then Tyr 25 and His 68 of one



subunit to Tyr 67 then His 68 then Tyr 25 then Ser 46 and finally ketopantoate of the next subunit. In the multiple sequence alignment discussed above all residues except Tyr 67 are conserved. An interaction between Asp 26 of one subunit and His 68 of the next could replace this interaction in organisms where there is no residue at position 67 able to H-bond to His 68. The alternate H-bond network would then extend from keptanoate to Ser 46 then Tyr 25 then Asp 26 of one subunit to His 68 then Tyr 25 then Ser 46 and finally keptanoate of the next subunit (see Figure 11b which is a stereo pair ribbon representation of the binding cavities of a modified KPHMT (SEQ ID NOs: 7-11, for example) dimer).

We believe we have also identified communication between subunits within the same pentamer. This interface is close to the opening to the binding cavity, the C-terminus (loop, L3), loop, L1 and the N-terminus of the adjacent subunit (see Figure 11b which is a stereo pair ribbon representation of the interface between adjacent KPHMT (SEQ ID NOs: 7-11, for example) dimers). Binding of cofactor and substrate would affect the structure of loops, L1 and L3 and thus affect the interaction at this interface. Of particular note, is the region within loop, L1 consisting of residues Gly 138 to Glu 158. Residues, Gln 142 and Tyr 150 are respectively implicated in interacting with  $Mg^{2+}$  (indirectly) and cofactor. We have also identified a residue, Lys 151, that in the crystal structure of the apo enzyme H-bonds across the interface to Thr 5 of the adjacent dimer. We speculate that binding of cofactor will cause loop L1 to move in this region, the Lys 151 - Thr 5 interaction to break, and a new interaction between Lys 151 and the polyglutamate tail of the cofactor to form.

### *Structure-Based Drug Design*

Determination of the 3D structure of KPHMT (SEQ ID NOs: 7-11, for example) provides important information about the binding sites of KPHMT (SEQ ID NOs: 7-11, for example),

particularly when comparisons are made with similar enzymes. This information may then be used for rational design of KPHMT (SEQ ID NOs: 7-11, for example) inhibitors, e.g. by computational techniques which identify possible binding ligands for the binding sites, by enabling linked-fragment approaches to drug design, and by enabling the identification and location of bound ligands using X-ray crystallographic analysis. These techniques are discussed in more detail below.

Greer *et al.* describes an iterative approach to ligand design based on repeated sequences of computer modelling, protein-ligand complex formation and X-ray crystallographic or NMR spectroscopic analysis. Thus novel thymidylate synthase inhibitor series were designed *de novo* by Greer *et al.*, and KPHMT (SEQ ID NOs: 7-11, for example) inhibitors may also be designed in the this way. More specifically, using e.g. GRID on the solved 3D structure of KPHMT (SEQ ID NOs: 7-11, for example), a ligand (e.g. a potential inhibitor) for KPHMT (SEQ ID NOs: 7-11, for example) may be designed that complements the functionalities of the KPHMT (SEQ ID NOs: 7-11, for example) binding site(s). The ligand can then be synthesised, formed into a complex with KPHMT (SEQ ID NOs: 7-11, for example), and the complex then analysed by X-ray crystallography to identify the actual position of the bound ligand. The structure and/or functional groups of the ligand can then be adjusted, if necessary, in view of the results of the X-ray analysis, and the synthesis and analysis sequence repeated until an optimised ligand is obtained. Related approaches to structure-based drug design are also discussed in Bohacek *et al.*, Medicinal Research Reviews, Vol.16, (1996), 3-50.

As a result of the determination of the KPHMT (SEQ ID NOs: 7-11, for example) 3D structure, more purely computational techniques for rational drug design may also be used to design KPHMT (SEQ ID NOs: 7-11, for example) inhibitors (for an overview of these techniques see e.g. Walters *et al.*). For example, automated ligand-receptor docking programs (discussed

e.g. by Jones *et al.* in *Current Opinion in Biotechnology*, Vol.6, (1995), 652-656) which require accurate information on the atomic coordinates of target receptors may be used to design potential KPHMT (SEQ ID NOS: 7-11, for example) inhibitors.

Linked-fragment approaches to drug design also require accurate information on the atomic coordinates of target receptors. The basic idea behind these approaches is to determine (computationally or experimentally) the binding locations of plural ligands to a target molecule, and then construct a molecular scaffold to connect the ligands together in such a way that their relative binding positions are preserved. The connected ligands thus form a potential lead compound that can be further refined using e.g. the iterative technique of Greer *et al.*. For a virtual linked-fragment approach see Verlinde *et al.*, *J. of Computer-Aided Molecular Design*, 6, (1992), 131-147, and for NMR and X-ray approaches see Shuker *et al.*, *Science*, 274, (1996), 1531-1534 and Stout *et al.*, *Structure*, 6, (1998), 839-848. The use of these approaches to design KPHMT (SEQ ID NOS: 7-11, for example) inhibitors is made possible by the determination of the KPHMT (SEQ ID NOS: 7-11, for example) structure.

Many of the techniques and approaches to structure-based drug design described above rely at some stage on X-ray analysis to identify the binding position of a ligand in a ligand-protein complex. A common way of doing this is to perform X-ray crystallography on the complex, produce a difference Fourier electron density map, and associate a particular pattern of electron density with the ligand. However, in order to produce the map (as explained e.g. by Blundell *et al.*) it is necessary to know beforehand the protein 3D structure (or at least the protein structure factors). Therefore, determination of the KPHMT (SEQ ID NOS: 7-11, for example) structure also allows difference Fourier electron density maps of KPHMT (SEQ ID NOS: 7-11, for example)-ligand complexes to be produced, which can greatly assist the process of rational drug design.

The approaches to structure-based drug design described above all require initial identification of possible compounds for interaction with target bio-molecule (in this case KPHMT (SEQ ID NOs: 7-11, for example)). Sometimes these compounds are known e.g. from the research literature. However, when they are not, or when novel compounds are wanted, a first stage of the drug design program may involve computer-based *in silico* screening of compound databases (such as the Cambridge Structural Database) with the aim of identifying compounds which interact with the binding site or sites of the target bio-molecule. Screening selection criteria may be based on pharmacokinetic properties such as metabolic stability and toxicity. However, determination of the KPHMT (SEQ ID NOs: 7-11, for example) structure allows the architecture and chemical nature of each KPHMT (SEQ ID NOs: 7-11, for example) binding site to be identified, which in turn allows the geometric and functional constraints of a descriptor for the potential inhibitor to be derived. The descriptor is, therefore, a type of virtual 3-D pharmacophore, which can also be used as selection criteria or filter for database screening.

While the invention has been described in conjunction with the exemplary embodiments described above, many equivalent modifications and variations will be apparent to those skilled in the art when given this disclosure. Accordingly, the exemplary embodiments of the invention set forth are considered to be illustrative and not limiting. Various changes to the described embodiments may be made without departing from the spirit and scope of the invention.

The references in the above text and listed below are incorporated by reference.

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TABLE 1

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REMARK coordinates from minimization and B-factor refinement
REMARK refinement resolution: 500.0 - 1.8 A
REMARK starting r= 0.2289 free_r= 0.2635
REMARK final r= 0.2292 free_r= 0.2638
REMARK rmsd bonds= 0.005641 rmsd angles= 1.11562
REMARK B rmsd for bonded mainchain atoms= 1.325 target= 1.5
REMARK B rmsd for bonded sidechain atoms= 2.001 target= 2.0
REMARK B rmsd for angle mainchain atoms= 2.071 target= 2.0
REMARK B rmsd for angle sidechain atoms= 2.863 target= 2.5
REMARK target= mlf final wa= 1.10321
REMARK final rweight= 0.0678 (with wa= 1.10321)
REMARK md-method= torsion annealing schedule= constant
REMARK starting temperature= 1000 total md steps= 1 * 100
REMARK cycles= 2 coordinate steps= 20 B-factor steps= 10
REMARK sg= P2(1) a= 86.074 b= 157.17 c= 100.181 alpha= 90 beta= 97.44 gamma= 90
REMARK topology file 1 : CNS_TOPPAR:protein.top
REMARK topology file 2 : CNS_TOPPAR:dna-rna.top
REMARK topology file 3 : CNS_TOPPAR:water.top
REMARK topology file 4 : CNS_TOPPAR:ion.top
REMARK topology file 5 : ./TOPH_PARAM/kpl.toph
REMARK parameter file 1 : CNS_TOPPAR:protein_rep.param
REMARK parameter file 2 : CNS_TOPPAR:dna-rna_rep.param
REMARK parameter file 3 : CNS_TOPPAR:water_rep.param
REMARK parameter file 4 : CNS_TOPPAR:ion.param
REMARK parameter file 5 : ./TOPH_PARAM/kpl.param
REMARK molecular structure file: generate.mtf
REMARK input coordinates: generate.pdb
REMARK reflection file= ./int/panb.cv
REMARK ncs= none
REMARK B-correction resolution: 6.0 - 1.8
REMARK initial B-factor correction applied to fobs :
REMARK B11= -1.301 B22= -2.124 B33= 3.425
REMARK B12= 0.000 B13= 1.230 B23= 0.000
REMARK B-factor correction applied to coordinate array B: 0.254
REMARK bulk solvent: density level= 0.392735 e/A^3, B-factor= 64.4356 A^2
REMARK reflections with |Fobs|/sigma_F < 0.0 rejected
REMARK reflections with |Fobs| > 10000 * rms(Fobs) rejected
REMARK theoretical total number of refl. in resol. range: 243384 ( 100.0 %)
REMARK number of unobserved reflections (no entry or |F|=0): 14308 ( 5.9 %)
REMARK number of reflections rejected: 0 ( 0.0 %)
REMARK total number of reflections used: 229076 ( 94.1 %)
REMARK number of reflections in working set: 206168 ( 84.7 %)
REMARK number of reflections in test set: 22908 ( 9.4 %)
CRYST1 86.074 157.170 100.181 90.00 97.44 90.00 P 21
REMARK FILENAME="refine.pdb"
REMARK DATE:17-Oct-00 01:40:10 created by user: inouet
REMARK VERSION:1.0
ATOM 1 CB MET 1 1.201 12.262 69.884 1.00 67.43
ATOM 2 CG MET 1 0.767 11.220 70.906 1.00 69.43
ATOM 3 SD MET 1 1.582 11.428 72.507 1.00 72.24
ATOM 4 CE MET 1 3.012 10.336 72.306 1.00 71.04
ATOM 5 C MET 1 1.282 10.813 67.848 1.00 63.63
ATOM 6 O MET 1 2.165 10.936 66.998 1.00 63.58
ATOM 7 N MET 1 -0.854 11.909 68.546 1.00 65.98
ATOM 8 CA MET 1 0.631 12.042 68.480 1.00 65.57
ATOM 9 N LYS 2 0.841 9.631 68.271 1.00 61.39
ATOM 10 CA LYS 2 1.376 8.379 67.750 1.00 58.18
ATOM 11 CB LYS 2 1.946 7.518 68.886 1.00 59.31
ATOM 12 CG LYS 2 3.141 8.121 69.610 1.00 60.51
ATOM 13 CD LYS 2 3.805 7.096 70.523 1.00 61.39
ATOM 14 CE LYS 2 2.844 6.572 71.585 1.00 62.31
ATOM 15 NZ LYS 2 3.441 5.457 72.377 1.00 62.32
ATOM 16 C LYS 2 0.313 7.577 67.003 1.00 54.66
ATOM 17 O LYS 2 -0.258 6.631 67.548 1.00 55.68
ATOM 18 N PRO 3 0.021 7.953 65.749 1.00 50.09
ATOM 19 CD PRO 3 -0.580 7.007 64.792 1.00 49.24
ATOM 20 CA PRO 3 0.633 9.074 65.034 1.00 45.89
ATOM 21 CB PRO 3 0.847 8.501 63.644 1.00 47.20
ATOM 22 CG PRO 3 -0.403 7.717 63.455 1.00 47.74
ATOM 23 C PRO 3 -0.291 10.290 65.014 1.00 41.96
ATOM 24 O PRO 3 -1.403 10.253 65.547 1.00 40.18
ATOM 25 N THR 4 0.175 11.363 64.389 1.00 37.27
ATOM 26 CA THR 4 -0.605 12.586 64.284 1.00 33.03
ATOM 27 CB THR 4 0.316 13.808 64.214 1.00 32.00
ATOM 28 OG1 THR 4 1.113 13.866 65.403 1.00 29.60

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ATOM	29	CG2	THR	4	-0.496	15.084	64.077	1.00	30.09
ATOM	30	C	THR	4	-1.436	12.516	63.012	1.00	31.90
ATOM	31	O	THR	4	-0.890	12.415	61.917	1.00	31.80
ATOM	32	N	THR	5	-2.755	12.574	63.156	1.00	30.88
ATOM	33	CA	THR	5	-3.636	12.494	61.999	1.00	29.95
ATOM	34	CB	THR	5	-4.616	11.320	62.137	1.00	30.13
ATOM	35	OG1	THR	5	-5.545	11.602	63.189	1.00	31.18
ATOM	36	CG2	THR	5	-3.864	10.035	62.462	1.00	29.84
ATOM	37	C	THR	5	-4.445	13.764	61.789	1.00	28.70
ATOM	38	O	THR	5	-4.407	14.684	62.605	1.00	28.11
ATOM	39	N	ILE	6	-5.184	13.804	60.685	1.00	28.91
ATOM	40	CA	ILE	6	-6.009	14.961	60.360	1.00	29.62
ATOM	41	CB	ILE	6	-6.777	14.749	59.042	1.00	30.80
ATOM	42	CG2	ILE	6	-7.445	16.047	58.617	1.00	29.12
ATOM	43	CG1	ILE	6	-5.813	14.298	57.945	1.00	33.13
ATOM	44	CD1	ILE	6	-6.513	13.840	56.671	1.00	34.94
ATOM	45	C	ILE	6	-7.016	15.189	61.477	1.00	29.79
ATOM	46	O	ILE	6	-7.339	16.327	61.813	1.00	30.34
ATOM	47	N	SER	7	-7.499	14.091	62.051	1.00	29.76
ATOM	48	CA	SER	7	-8.474	14.142	63.138	1.00	30.44
ATOM	49	CB	SER	7	-8.748	12.730	63.653	1.00	31.47
ATOM	50	OG	SER	7	-8.920	11.822	62.575	1.00	37.31
ATOM	51	C	SER	7	-7.954	15.006	64.285	1.00	29.13
ATOM	52	O	SER	7	-8.712	15.751	64.909	1.00	28.63
ATOM	53	N	LEU	8	-6.655	14.902	64.556	1.00	27.78
ATOM	54	CA	LEU	8	-6.035	15.668	65.630	1.00	27.46
ATOM	55	CB	LEU	8	-4.553	15.296	65.778	1.00	28.11
ATOM	56	CG	LEU	8	-3.954	15.254	67.190	1.00	30.83
ATOM	57	CD1	LEU	8	-2.452	15.499	67.105	1.00	30.15
ATOM	58	CD2	LEU	8	-4.594	16.302	68.086	1.00	32.65
ATOM	59	C	LEU	8	-6.141	17.173	65.378	1.00	26.61
ATOM	60	O	LEU	8	-6.388	17.943	66.303	1.00	26.41
ATOM	61	N	LEU	9	-5.951	17.589	64.129	1.00	23.76
ATOM	62	CA	LEU	9	-6.024	19.005	63.799	1.00	24.65
ATOM	63	CB	LEU	9	-5.388	19.279	62.431	1.00	22.20
ATOM	64	CG	LEU	9	-3.926	18.838	62.239	1.00	19.92
ATOM	65	CD1	LEU	9	-3.403	19.371	60.914	1.00	18.82
ATOM	66	CD2	LEU	9	-3.076	19.367	63.382	1.00	18.44
ATOM	67	C	LEU	9	-7.468	19.500	63.805	1.00	26.68
ATOM	68	O	LEU	9	-7.737	20.650	64.151	1.00	26.46
ATOM	69	N	GLN	10	-8.396	18.627	63.426	1.00	29.15
ATOM	70	CA	GLN	10	-9.808	18.990	63.403	1.00	32.76
ATOM	71	CB	GLN	10	-10.632	17.869	62.764	1.00	32.40
ATOM	72	CG	GLN	10	-12.091	18.220	62.511	1.00	34.98
ATOM	73	CD	GLN	10	-12.263	19.495	61.698	1.00	34.51
ATOM	74	OE1	GLN	10	-12.158	20.601	62.228	1.00	35.90
ATOM	75	NE2	GLN	10	-12.518	19.343	60.403	1.00	33.91
ATOM	76	C	GLN	10	-10.256	19.239	64.841	1.00	34.38
ATOM	77	O	GLN	10	-11.132	20.066	65.093	1.00	35.73
ATOM	78	N	LYS	11	-9.640	18.528	65.781	1.00	36.20
ATOM	79	CA	LYS	11	-9.961	18.694	67.193	1.00	37.50
ATOM	80	CB	LYS	11	-9.374	17.548	68.023	1.00	39.71
ATOM	81	CG	LYS	11	-9.466	17.788	69.526	1.00	42.23
ATOM	82	CD	LYS	11	-8.571	16.850	70.326	1.00	45.49
ATOM	83	CE	LYS	11	-9.131	15.436	70.387	1.00	47.75
ATOM	84	NZ	LYS	11	-8.313	14.563	71.283	1.00	48.44
ATOM	85	C	LYS	11	-9.378	20.016	67.677	1.00	37.17
ATOM	86	O	LYS	11	-9.988	20.721	68.483	1.00	38.57
ATOM	87	N	TYR	12	-8.189	20.345	67.181	1.00	36.59
ATOM	88	CA	TYR	12	-7.512	21.585	67.548	1.00	35.53
ATOM	89	CB	TYR	12	-6.145	21.665	66.864	1.00	36.51
ATOM	90	CG	TYR	12	-5.070	20.803	67.486	1.00	37.30
ATOM	91	CD1	TYR	12	-3.889	20.534	66.797	1.00	38.03
ATOM	92	CE1	TYR	12	-2.880	19.769	67.371	1.00	38.86
ATOM	93	CD2	TYR	12	-5.217	20.281	68.772	1.00	37.36
ATOM	94	CE2	TYR	12	-4.213	19.515	69.356	1.00	38.58
ATOM	95	CZ	TYR	12	-3.047	19.264	68.648	1.00	39.25
ATOM	96	OH	TYR	12	-2.044	18.514	69.220	1.00	40.19
ATOM	97	C	TYR	12	-8.324	22.815	67.169	1.00	34.82
ATOM	98	O	TYR	12	-8.451	23.748	67.960	1.00	34.13
ATOM	99	N	LYS	13	-8.860	22.822	65.953	1.00	34.10
ATOM	100	CA	LYS	13	-9.652	23.960	65.496	1.00	35.74
ATOM	101	CB	LYS	13	-10.087	23.765	64.041	1.00	34.52
ATOM	102	CG	LYS	13	-10.895	24.927	63.458	1.00	34.21
ATOM	103	CD	LYS	13	-11.268	24.645	62.001	1.00	31.63
ATOM	104	CE	LYS	13	-12.274	25.645	61.433	1.00	31.85
ATOM	105	NZ	LYS	13	-11.675	26.929	60.984	1.00	30.98

ATOM	106	C	LYS	13	-10.878	24.124	66.385	1.00	36.28
ATOM	107	O	LYS	13	-11.336	25.240	66.622	1.00	34.68
ATOM	108	N	GLN	14	-11.404	23.004	66.869	1.00	38.20
ATOM	109	CA	GLN	14	-12.572	23.018	67.744	1.00	40.77
ATOM	110	CB	GLN	14	-13.049	21.591	68.007	1.00	42.50
ATOM	111	CG	GLN	14	-13.662	20.906	66.800	1.00	47.11
ATOM	112	CD	GLN	14	-13.789	19.407	66.992	1.00	49.44
ATOM	113	OE1	GLN	14	-14.221	18.939	68.046	1.00	51.52
ATOM	114	NE2	GLN	14	-13.419	18.645	65.967	1.00	50.79
ATOM	115	C	GLN	14	-12.227	23.688	69.071	1.00	40.73
ATOM	116	O	GLN	14	-13.043	24.409	69.648	1.00	40.91
ATOM	117	N	GLU	15	-11.010	23.443	69.545	1.00	39.66
ATOM	118	CA	GLU	15	-10.544	24.008	70.805	1.00	39.32
ATOM	119	CB	GLU	15	-9.544	23.054	71.465	1.00	40.94
ATOM	120	CG	GLU	15	-10.012	21.607	71.509	1.00	43.66
ATOM	121	CD	GLU	15	-9.013	20.679	72.180	1.00	44.96
ATOM	122	OE1	GLU	15	-7.834	20.658	71.768	1.00	44.85
ATOM	123	OE2	GLU	15	-9.409	19.959	73.121	1.00	48.88
ATOM	124	C	GLU	15	-9.880	25.357	70.567	1.00	38.67
ATOM	125	O	GLU	15	-9.381	25.985	71.502	1.00	38.21
ATOM	126	N	LYS	16	-9.889	25.803	69.313	1.00	37.45
ATOM	127	CA	LYS	16	-9.269	27.069	68.939	1.00	36.93
ATOM	128	CB	LYS	16	-9.957	28.235	69.655	1.00	39.24
ATOM	129	CG	LYS	16	-10.820	29.105	68.748	1.00	42.46
ATOM	130	CD	LYS	16	-9.963	29.912	67.783	1.00	44.77
ATOM	131	CE	LYS	16	-10.809	30.700	66.794	1.00	45.69
ATOM	132	NZ	LYS	16	-11.734	31.653	67.466	1.00	45.98
ATOM	133	C	LYS	16	-7.777	27.055	69.272	1.00	35.34
ATOM	134	O	LYS	16	-7.170	28.103	69.507	1.00	34.70
ATOM	135	N	LYS	17	-7.186	25.865	69.304	1.00	33.29
ATOM	136	CA	LYS	17	-5.759	25.752	69.593	1.00	32.28
ATOM	137	CB	LYS	17	-5.440	24.423	70.285	1.00	34.01
ATOM	138	CG	LYS	17	-3.951	24.238	70.580	1.00	36.37
ATOM	139	CD	LYS	17	-3.618	22.820	71.033	1.00	39.39
ATOM	140	CE	LYS	17	-4.198	22.504	72.405	1.00	41.80
ATOM	141	NZ	LYS	17	-3.935	21.089	72.804	1.00	42.95
ATOM	142	C	LYS	17	-4.955	25.854	68.298	1.00	30.45
ATOM	143	O	LYS	17	-4.935	24.923	67.495	1.00	29.95
ATOM	144	N	ARG	18	-4.299	26.993	68.103	1.00	28.24
ATOM	145	CA	ARG	18	-3.486	27.224	66.913	1.00	27.71
ATOM	146	CB	ARG	18	-3.084	28.693	66.841	1.00	26.93
ATOM	147	CG	ARG	18	-4.213	29.588	66.366	1.00	29.98
ATOM	148	CD	ARG	18	-3.904	31.058	66.576	1.00	31.56
ATOM	149	NE	ARG	18	-3.975	31.427	67.989	1.00	33.11
ATOM	150	CZ	ARG	18	-3.874	32.673	68.437	1.00	34.92
ATOM	151	NH1	ARG	18	-3.694	33.671	67.580	1.00	34.93
ATOM	152	NH2	ARG	18	-3.961	32.921	69.736	1.00	33.10
ATOM	153	C	ARG	18	-2.249	26.329	66.912	1.00	26.09
ATOM	154	O	ARG	18	-1.455	26.357	67.852	1.00	27.27
ATOM	155	N	PHE	19	-2.093	25.546	65.845	1.00	24.65
ATOM	156	CA	PHE	19	-0.983	24.601	65.710	1.00	21.83
ATOM	157	CB	PHE	19	-1.543	23.213	65.386	1.00	22.18
ATOM	158	CG	PHE	19	-2.394	23.176	64.147	1.00	21.17
ATOM	159	CD1	PHE	19	-1.813	23.054	62.885	1.00	21.71
ATOM	160	CD2	PHE	19	-3.779	23.275	64.240	1.00	21.90
ATOM	161	CE1	PHE	19	-2.604	23.036	61.730	1.00	20.83
ATOM	162	CE2	PHE	19	-4.582	23.259	63.095	1.00	20.74
ATOM	163	CZ	PHE	19	-3.995	23.137	61.837	1.00	22.45
ATOM	164	C	PHE	19	0.075	24.985	64.678	1.00	20.64
ATOM	165	O	PHE	19	-0.208	25.687	63.708	1.00	20.24
ATOM	166	N	ALA	20	1.298	24.509	64.894	1.00	17.95
ATOM	167	CA	ALA	20	2.409	24.801	63.994	1.00	18.49
ATOM	168	CB	ALA	20	3.671	25.051	64.808	1.00	16.95
ATOM	169	C	ALA	20	2.676	23.705	62.959	1.00	17.84
ATOM	170	O	ALA	20	2.563	22.515	63.253	1.00	19.20
ATOM	171	N	THR	21	3.035	24.126	61.750	1.00	19.33
ATOM	172	CA	THR	21	3.351	23.211	60.654	1.00	21.03
ATOM	173	CB	THR	21	2.235	23.215	59.595	1.00	22.40
ATOM	174	OG1	THR	21	1.013	22.766	60.201	1.00	25.51
ATOM	175	CG2	THR	21	2.583	22.298	58.449	1.00	28.47
ATOM	176	C	THR	21	4.667	23.668	60.022	1.00	18.87
ATOM	177	O	THR	21	5.028	24.846	60.095	1.00	19.63
ATOM	178	N	ILE	22	5.391	22.757	59.387	1.00	17.33
ATOM	179	CA	ILE	22	6.672	23.156	58.822	1.00	16.75
ATOM	180	CB	ILE	22	7.761	23.058	59.915	1.00	16.67
ATOM	181	CG2	ILE	22	8.068	21.593	60.208	1.00	16.67
ATOM	182	CG1	ILE	22	9.009	23.833	59.492	1.00	18.38

ATOM	183	CD1	ILE	22	9.959	24.160	60.653	1.00	19.13
ATOM	184	C	ILE	22	7.068	22.314	57.617	1.00	16.22
ATOM	185	O	ILE	22	6.592	21.194	57.459	1.00	16.81
ATOM	186	N	THR	23	7.911	22.868	56.754	1.00	15.76
ATOM	187	CA	THR	23	8.357	22.119	55.586	1.00	19.36
ATOM	188	CB	THR	23	8.756	23.061	54.409	1.00	18.72
ATOM	189	OG1	THR	23	10.010	23.697	54.692	1.00	23.35
ATOM	190	CG2	THR	23	7.699	24.155	54.216	1.00	23.17
ATOM	191	C	THR	23	9.564	21.285	56.014	1.00	18.45
ATOM	192	O	THR	23	10.274	21.643	56.954	1.00	18.13
ATOM	193	N	ALA	24	9.772	20.155	55.343	1.00	17.71
ATOM	194	CA	ALA	24	10.897	19.276	55.633	1.00	16.52
ATOM	195	CB	ALA	24	10.575	18.345	56.796	1.00	16.73
ATOM	196	C	ALA	24	11.132	18.483	54.358	1.00	15.72
ATOM	197	O	ALA	24	10.181	18.183	53.634	1.00	13.61
ATOM	198	N	TYR	25	12.387	18.148	54.079	1.00	15.44
ATOM	199	CA	TYR	25	12.713	17.420	52.859	1.00	15.30
ATOM	200	CB	TYR	25	13.205	18.389	51.780	1.00	16.75
ATOM	201	CG	TYR	25	12.454	19.697	51.729	1.00	19.07
ATOM	202	CD1	TYR	25	12.934	20.822	52.402	1.00	17.12
ATOM	203	CE1	TYR	25	12.240	22.026	52.379	1.00	22.53
ATOM	204	CD2	TYR	25	11.255	19.808	51.028	1.00	17.14
ATOM	205	CE2	TYR	25	10.546	21.010	50.999	1.00	21.05
ATOM	206	CZ	TYR	25	11.044	22.114	51.678	1.00	22.44
ATOM	207	OH	TYR	25	10.347	23.300	51.669	1.00	25.31
ATOM	208	C	TYR	25	13.785	16.359	53.068	1.00	17.26
ATOM	209	O	TYR	25	14.327	15.837	52.094	1.00	16.21
ATOM	210	N	ASP	26	14.101	16.051	54.320	1.00	15.99
ATOM	211	CA	ASP	26	15.121	15.059	54.604	1.00	16.04
ATOM	212	CB	ASP	26	16.511	15.686	54.453	1.00	14.69
ATOM	213	CG	ASP	26	16.803	16.751	55.507	1.00	16.04
ATOM	214	OD1	ASP	26	17.002	16.391	56.679	1.00	17.13
ATOM	215	OD2	ASP	26	16.829	17.935	55.144	1.00	14.58
ATOM	216	C	ASP	26	14.967	14.426	55.981	1.00	16.01
ATOM	217	O	ASP	26	14.182	14.888	56.813	1.00	16.69
ATOM	218	N	TYR	27	15.718	13.353	56.214	1.00	13.50
ATOM	219	CA	TYR	27	15.660	12.625	57.474	1.00	15.85
ATOM	220	CB	TYR	27	16.591	11.412	57.408	1.00	16.76
ATOM	221	CG	TYR	27	16.777	10.693	58.727	1.00	17.84
ATOM	222	CD1	TYR	27	15.871	9.723	59.150	1.00	17.06
ATOM	223	CE1	TYR	27	16.053	9.046	60.353	1.00	18.09
ATOM	224	CD2	TYR	27	17.873	10.975	59.546	1.00	19.28
ATOM	225	CE2	TYR	27	18.065	10.311	60.748	1.00	20.21
ATOM	226	CZ	TYR	27	17.163	9.350	61.151	1.00	20.97
ATOM	227	OH	TYR	27	17.368	8.691	62.342	1.00	21.54
ATOM	228	C	TYR	27	16.056	13.482	58.671	1.00	15.76
ATOM	229	O	TYR	27	15.338	13.544	59.670	1.00	16.46
ATOM	230	N	SER	28	17.216	14.121	58.560	1.00	16.97
ATOM	231	CA	SER	28	17.763	14.943	59.630	1.00	17.00
ATOM	232	CB	SER	28	19.034	15.643	59.146	1.00	19.12
ATOM	233	OG	SER	28	20.029	14.671	58.842	1.00	22.00
ATOM	234	C	SER	28	16.798	15.957	60.222	1.00	17.23
ATOM	235	O	SER	28	16.485	15.905	61.422	1.00	16.02
ATOM	236	N	PHE	29	16.307	16.881	59.408	1.00	15.80
ATOM	237	CA	PHE	29	15.382	17.864	59.965	1.00	16.28
ATOM	238	CB	PHE	29	15.181	19.025	59.000	1.00	14.20
ATOM	239	CG	PHE	29	16.321	19.988	59.001	1.00	15.71
ATOM	240	CD1	PHE	29	17.354	19.871	58.075	1.00	14.27
ATOM	241	CD2	PHE	29	16.371	21.008	59.946	1.00	13.32
ATOM	242	CE1	PHE	29	18.423	20.764	58.080	1.00	15.74
ATOM	243	CE2	PHE	29	17.430	21.904	59.967	1.00	17.20
ATOM	244	CZ	PHE	29	18.463	21.787	59.031	1.00	14.83
ATOM	245	C	PHE	29	14.044	17.284	60.383	1.00	15.83
ATOM	246	O	PHE	29	13.481	17.696	61.398	1.00	16.89
ATOM	247	N	ALA	30	13.532	16.326	59.618	1.00	16.16
ATOM	248	CA	ALA	30	12.256	15.718	59.962	1.00	17.31
ATOM	249	CB	ALA	30	11.887	14.649	58.925	1.00	16.54
ATOM	250	C	ALA	30	12.343	15.094	61.357	1.00	17.30
ATOM	251	O	ALA	30	11.404	15.171	62.155	1.00	16.42
ATOM	252	N	LYS	31	13.481	14.467	61.634	1.00	16.26
ATOM	253	CA	LYS	31	13.731	13.815	62.918	1.00	17.07
ATOM	254	CB	LYS	31	15.062	13.063	62.852	1.00	18.24
ATOM	255	CG	LYS	31	15.491	12.386	64.146	1.00	24.20
ATOM	256	CD	LYS	31	14.608	11.203	64.469	1.00	27.80
ATOM	257	CE	LYS	31	15.306	10.248	65.425	1.00	30.36
ATOM	258	NZ	LYS	31	15.724	10.913	66.697	1.00	32.82
ATOM	259	C	LYS	31	13.788	14.833	64.057	1.00	17.16

ATOM	260	O	LYS	31	13.250	14.608	65.147	1.00	18.34
ATOM	261	N	LEU	32	14.468	15.941	63.790	1.00	18.82
ATOM	262	CA	LEU	32	14.631	17.019	64.756	1.00	18.15
ATOM	263	CB	LEU	32	15.549	18.097	64.171	1.00	17.24
ATOM	264	CG	LEU	32	16.070	19.200	65.113	1.00	18.88
ATOM	265	CD1	LEU	32	17.356	19.769	64.556	1.00	17.20
ATOM	266	CD2	LEU	32	15.008	20.292	65.280	1.00	18.78
ATOM	267	C	LEU	32	13.272	17.620	65.103	1.00	18.02
ATOM	268	O	LEU	32	12.963	17.847	66.272	1.00	17.18
ATOM	269	N	PHE	33	12.462	17.885	64.083	1.00	17.34
ATOM	270	CA	PHE	33	11.144	18.473	64.316	1.00	18.21
ATOM	271	CB	PHE	33	10.451	18.832	62.995	1.00	15.31
ATOM	272	CG	PHE	33	11.255	19.734	62.092	1.00	14.93
ATOM	273	CD1	PHE	33	12.133	20.689	62.610	1.00	14.65
ATOM	274	CD2	PHE	33	11.093	19.657	60.716	1.00	13.00
ATOM	275	CE1	PHE	33	12.832	21.550	61.764	1.00	13.96
ATOM	276	CE2	PHE	33	11.783	20.510	59.861	1.00	9.75
ATOM	277	CZ	PHE	33	12.657	21.461	60.389	1.00	14.73
ATOM	278	C	PHE	33	10.255	17.503	65.091	1.00	18.11
ATOM	279	O	PHE	33	9.582	17.892	66.048	1.00	17.51
ATOM	280	N	ALA	34	10.246	16.241	64.666	1.00	18.42
ATOM	281	CA	ALA	34	9.433	15.231	65.330	1.00	19.46
ATOM	282	CB	ALA	34	9.573	13.878	64.623	1.00	20.93
ATOM	283	C	ALA	34	9.828	15.098	66.799	1.00	20.01
ATOM	284	O	ALA	34	8.970	15.000	67.673	1.00	19.41
ATOM	285	N	ASP	35	11.125	15.101	67.074	1.00	22.13
ATOM	286	CA	ASP	35	11.574	14.972	68.449	1.00	24.53
ATOM	287	CB	ASP	35	13.086	14.788	68.503	1.00	25.01
ATOM	288	CG	ASP	35	13.522	13.424	67.989	1.00	27.07
ATOM	289	OD1	ASP	35	12.665	12.519	67.898	1.00	28.23
ATOM	290	OD2	ASP	35	14.720	13.261	67.694	1.00	28.18
ATOM	291	C	ASP	35	11.156	16.151	69.324	1.00	23.50
ATOM	292	O	ASP	35	11.086	16.024	70.545	1.00	24.71
ATOM	293	N	GLU	36	10.872	17.294	68.706	1.00	24.53
ATOM	294	CA	GLU	36	10.455	18.469	69.464	1.00	23.98
ATOM	295	CB	GLU	36	11.029	19.743	68.841	1.00	25.45
ATOM	296	CG	GLU	36	12.535	19.876	68.963	1.00	25.52
ATOM	297	CD	GLU	36	13.005	19.750	70.399	1.00	26.66
ATOM	298	OE1	GLU	36	12.385	20.375	71.286	1.00	23.68
ATOM	299	OE2	GLU	36	13.993	19.032	70.637	1.00	27.91
ATOM	300	C	GLU	36	8.937	18.588	69.553	1.00	23.45
ATOM	301	O	GLU	36	8.421	19.502	70.192	1.00	23.61
ATOM	302	N	GLY	37	8.221	17.672	68.908	1.00	22.87
ATOM	303	CA	GLY	37	6.765	17.721	68.955	1.00	22.54
ATOM	304	C	GLY	37	6.096	18.447	67.796	1.00	19.79
ATOM	305	O	GLY	37	4.902	18.741	67.845	1.00	21.78
ATOM	306	N	LEU	38	6.873	18.755	66.765	1.00	19.44
ATOM	307	CA	LEU	38	6.365	19.416	65.569	1.00	19.71
ATOM	308	CB	LEU	38	7.459	20.281	64.952	1.00	20.11
ATOM	309	CG	LEU	38	7.131	21.691	64.458	1.00	22.03
ATOM	310	CD1	LEU	38	8.352	22.238	63.739	1.00	20.65
ATOM	311	CD2	LEU	38	5.918	21.714	63.548	1.00	20.80
ATOM	312	C	LEU	38	6.057	18.222	64.664	1.00	20.90
ATOM	313	O	LEU	38	6.938	17.741	63.939	1.00	18.42
ATOM	314	N	ASN	39	4.807	17.762	64.720	1.00	20.83
ATOM	315	CA	ASN	39	4.355	16.573	63.999	1.00	21.62
ATOM	316	CB	ASN	39	3.489	15.709	64.924	1.00	24.31
ATOM	317	CG	ASN	39	4.128	15.480	66.281	1.00	28.12
ATOM	318	OD1	ASN	39	5.334	15.252	66.377	1.00	28.10
ATOM	319	ND2	ASN	39	3.321	15.526	67.338	1.00	29.42
ATOM	320	C	ASN	39	3.593	16.766	62.696	1.00	19.52
ATOM	321	O	ASN	39	2.955	15.832	62.221	1.00	19.99
ATOM	322	N	VAL	40	3.648	17.961	62.123	1.00	19.39
ATOM	323	CA	VAL	40	2.960	18.221	60.869	1.00	18.52
ATOM	324	CB	VAL	40	1.799	19.213	61.056	1.00	19.51
ATOM	325	CG1	VAL	40	1.113	19.470	59.726	1.00	18.68
ATOM	326	CG2	VAL	40	0.801	18.659	62.066	1.00	18.86
ATOM	327	C	VAL	40	3.967	18.785	59.888	1.00	18.22
ATOM	328	O	VAL	40	4.450	19.910	60.040	1.00	14.68
ATOM	329	N	MET	41	4.280	17.990	58.869	1.00	16.95
ATOM	330	CA	MET	41	5.271	18.398	57.892	1.00	16.29
ATOM	331	CB	MET	41	6.535	17.556	58.082	1.00	16.97
ATOM	332	CG	MET	41	7.255	17.864	59.392	1.00	20.16
ATOM	333	SD	MET	41	8.564	16.706	59.719	1.00	19.46
ATOM	334	CE	MET	41	7.955	15.899	61.206	1.00	21.43
ATOM	335	C	MET	41	4.804	18.342	56.452	1.00	16.56
ATOM	336	O	MET	41	4.046	17.464	56.062	1.00	18.81

ATOM	337	N	LEU	42	5.276	19.300	55.665	1.00	18.90
ATOM	338	CA	LEU	42	4.907	19.383	54.265	1.00	20.11
ATOM	339	CB	LEU	42	4.178	20.707	54.016	1.00	22.93
ATOM	340	CG	LEU	42	3.677	21.143	52.630	1.00	26.24
ATOM	341	CD1	LEU	42	4.777	21.879	51.907	1.00	29.83
ATOM	342	CD2	LEU	42	3.169	19.955	51.818	1.00	24.10
ATOM	343	C	LEU	42	6.120	19.258	53.344	1.00	19.47
ATOM	344	O	LEU	42	7.106	19.978	53.488	1.00	17.61
ATOM	345	N	VAL	43	6.045	18.313	52.414	1.00	19.14
ATOM	346	CA	VAL	43	7.102	18.116	51.429	1.00	18.25
ATOM	347	CB	VAL	43	7.332	16.624	51.126	1.00	19.90
ATOM	348	CG1	VAL	43	8.397	16.461	50.041	1.00	19.97
ATOM	349	CG2	VAL	43	7.752	15.895	52.395	1.00	19.98
ATOM	350	C	VAL	43	6.517	18.806	50.208	1.00	18.93
ATOM	351	O	VAL	43	5.815	18.187	49.408	1.00	17.33
ATOM	352	N	GLY	44	6.786	20.102	50.089	1.00	17.93
ATOM	353	CA	GLY	44	6.248	20.865	48.980	1.00	20.04
ATOM	354	C	GLY	44	7.226	21.095	47.854	1.00	18.04
ATOM	355	O	GLY	44	8.430	20.872	48.008	1.00	17.40
ATOM	356	N	ASP	45	6.715	21.557	46.718	1.00	18.65
ATOM	357	CA	ASP	45	7.583	21.796	45.575	1.00	20.74
ATOM	358	CB	ASP	45	6.764	21.936	44.279	1.00	21.58
ATOM	359	CG	ASP	45	5.684	22.997	44.372	1.00	23.34
ATOM	360	OD1	ASP	45	5.672	23.751	45.359	1.00	22.56
ATOM	361	OD2	ASP	45	4.858	23.074	43.442	1.00	21.88
ATOM	362	C	ASP	45	8.483	23.007	45.776	1.00	19.43
ATOM	363	O	ASP	45	9.243	23.374	44.883	1.00	19.95
ATOM	364	N	SER	46	8.408	23.635	46.949	1.00	20.64
ATOM	365	CA	SER	46	9.285	24.772	47.211	1.00	19.31
ATOM	366	CB	SER	46	8.944	25.429	48.551	1.00	19.58
ATOM	367	OG	SER	46	9.146	24.533	49.628	1.00	20.11
ATOM	368	C	SER	46	10.705	24.206	47.243	1.00	19.27
ATOM	369	O	SER	46	11.686	24.945	47.155	1.00	20.36
ATOM	370	N	LEU	47	10.810	22.884	47.365	1.00	18.59
ATOM	371	CA	LEU	47	12.119	22.237	47.384	1.00	19.25
ATOM	372	CB	LEU	47	11.970	20.737	47.661	1.00	18.00
ATOM	373	CG	LEU	47	11.308	19.853	46.597	1.00	17.40
ATOM	374	CD1	LEU	47	12.309	19.517	45.489	1.00	15.15
ATOM	375	CD2	LEU	47	10.822	18.572	47.255	1.00	16.79
ATOM	376	C	LEU	47	12.853	22.467	46.063	1.00	17.82
ATOM	377	O	LEU	47	14.083	22.399	46.004	1.00	17.99
ATOM	378	N	GLY	48	12.100	22.742	45.001	1.00	17.81
ATOM	379	CA	GLY	48	12.720	22.997	43.708	1.00	16.18
ATOM	380	C	GLY	48	13.659	24.186	43.784	1.00	18.66
ATOM	381	O	GLY	48	14.644	24.271	43.050	1.00	17.89
ATOM	382	N	MET	49	13.356	25.108	44.691	1.00	19.84
ATOM	383	CA	MET	49	14.172	26.303	44.865	1.00	20.69
ATOM	384	CB	MET	49	13.263	27.515	45.100	1.00	23.46
ATOM	385	CG	MET	49	12.312	27.789	43.940	1.00	25.97
ATOM	386	SD	MET	49	11.099	29.069	44.266	1.00	31.34
ATOM	387	CE	MET	49	12.037	30.520	43.900	1.00	32.33
ATOM	388	C	MET	49	15.162	26.153	46.022	1.00	20.49
ATOM	389	O	MET	49	16.370	26.292	45.837	1.00	22.08
ATOM	390	N	THR	50	14.649	25.846	47.208	1.00	21.41
ATOM	391	CA	THR	50	15.492	25.702	48.387	1.00	21.56
ATOM	392	CB	THR	50	14.636	25.608	49.655	1.00	25.24
ATOM	393	OG1	THR	50	15.493	25.523	50.801	1.00	31.31
ATOM	394	CG2	THR	50	13.750	24.381	49.600	1.00	23.80
ATOM	395	C	THR	50	16.432	24.498	48.362	1.00	21.30
ATOM	396	O	THR	50	17.551	24.565	48.864	1.00	21.10
ATOM	397	N	VAL	51	15.975	23.391	47.787	1.00	18.20
ATOM	398	CA	VAL	51	16.812	22.200	47.719	1.00	19.81
ATOM	399	CB	VAL	51	15.997	20.918	47.983	1.00	18.02
ATOM	400	CG1	VAL	51	16.909	19.695	47.900	1.00	23.01
ATOM	401	CG2	VAL	51	15.355	20.983	49.365	1.00	21.92
ATOM	402	C	VAL	51	17.536	22.038	46.384	1.00	18.45
ATOM	403	O	VAL	51	18.755	21.867	46.351	1.00	16.95
ATOM	404	N	GLN	52	16.788	22.087	45.286	1.00	17.92
ATOM	405	CA	GLN	52	17.381	21.907	43.963	1.00	18.16
ATOM	406	CB	GLN	52	16.312	21.427	42.976	1.00	17.32
ATOM	407	CG	GLN	52	15.529	20.227	43.482	1.00	16.59
ATOM	408	CD	GLN	52	14.477	19.771	42.504	1.00	15.57
ATOM	409	OE1	GLN	52	14.011	20.552	41.673	1.00	16.27
ATOM	410	NE2	GLN	52	14.084	18.504	42.600	1.00	14.83
ATOM	411	C	GLN	52	18.076	23.150	43.411	1.00	18.00
ATOM	412	O	GLN	52	19.003	23.052	42.606	1.00	18.07
ATOM	413	N	GLY	53	17.624	24.324	43.831	1.00	19.93

ATOM	414	CA	GLY	53	18.248	25.549	43.361	1.00	20.83
ATOM	415	C	GLY	53	17.685	26.146	42.085	1.00	22.32
ATOM	416	O	GLY	53	18.387	26.877	41.387	1.00	24.49
ATOM	417	N	HIS	54	16.429	25.849	41.771	1.00	22.93
ATOM	418	CA	HIS	54	15.803	26.397	40.575	1.00	24.27
ATOM	419	CB	HIS	54	14.725	25.438	40.049	1.00	23.64
ATOM	420	CG	HIS	54	15.264	24.127	39.568	1.00	25.03
ATOM	421	CD2	HIS	54	15.030	22.860	39.984	1.00	25.14
ATOM	422	ND1	HIS	54	16.175	24.029	38.538	1.00	25.82
ATOM	423	CE1	HIS	54	16.481	22.759	38.343	1.00	26.94
ATOM	424	NE2	HIS	54	15.800	22.029	39.208	1.00	26.01
ATOM	425	C	HIS	54	15.176	27.748	40.914	1.00	25.18
ATOM	426	O	HIS	54	14.947	28.058	42.086	1.00	24.14
ATOM	427	N	ASP	55	14.898	28.545	39.884	1.00	25.82
ATOM	428	CA	ASP	55	14.302	29.869	40.062	1.00	27.59
ATOM	429	CB	ASP	55	14.550	30.729	38.813	1.00	30.40
ATOM	430	CG	ASP	55	13.786	30.232	37.600	1.00	33.05
ATOM	431	OD1	ASP	55	12.535	30.266	37.622	1.00	36.66
ATOM	432	OD2	ASP	55	14.428	29.804	36.618	1.00	37.40
ATOM	433	C	ASP	55	12.801	29.778	40.333	1.00	26.78
ATOM	434	O	ASP	55	12.174	30.755	40.737	1.00	27.57
ATOM	435	N	SER	56	12.228	28.600	40.099	1.00	25.17
ATOM	436	CA	SER	56	10.802	28.386	40.322	1.00	21.97
ATOM	437	CB	SER	56	10.008	28.635	39.036	1.00	21.35
ATOM	438	OG	SER	56	10.232	27.608	38.084	1.00	21.31
ATOM	439	C	SER	56	10.582	26.956	40.795	1.00	20.02
ATOM	440	O	SER	56	11.529	26.177	40.903	1.00	21.16
ATOM	441	N	THR	57	9.334	26.615	41.084	1.00	19.01
ATOM	442	CA	THR	57	9.007	25.272	41.543	1.00	19.21
ATOM	443	CB	THR	57	7.869	25.305	42.579	1.00	19.53
ATOM	444	OG1	THR	57	6.686	25.840	41.972	1.00	20.97
ATOM	445	CG2	THR	57	8.249	26.179	43.772	1.00	19.07
ATOM	446	C	THR	57	8.560	24.359	40.396	1.00	18.44
ATOM	447	O	THR	57	8.422	23.153	40.587	1.00	18.34
ATOM	448	N	LEU	58	8.341	24.930	39.212	1.00	20.59
ATOM	449	CA	LEU	58	7.868	24.149	38.062	1.00	20.34
ATOM	450	CB	LEU	58	7.720	25.029	36.816	1.00	20.92
ATOM	451	CG	LEU	58	6.542	26.005	36.785	1.00	23.24
ATOM	452	CD1	LEU	58	6.926	27.242	37.578	1.00	25.30
ATOM	453	CD2	LEU	58	6.195	26.393	35.349	1.00	23.02
ATOM	454	C	LEU	58	8.687	22.913	37.696	1.00	21.07
ATOM	455	O	LEU	58	8.120	21.868	37.366	1.00	19.23
ATOM	456	N	PRO	59	10.025	23.015	37.731	1.00	20.10
ATOM	457	CD	PRO	59	10.845	24.213	37.965	1.00	23.05
ATOM	458	CA	PRO	59	10.862	21.860	37.392	1.00	21.47
ATOM	459	CB	PRO	59	12.286	22.433	37.427	1.00	21.53
ATOM	460	CG	PRO	59	12.167	23.617	38.335	1.00	25.99
ATOM	461	C	PRO	59	10.678	20.653	38.307	1.00	18.05
ATOM	462	O	PRO	59	11.041	19.534	37.946	1.00	18.36
ATOM	463	N	VAL	60	10.100	20.865	39.486	1.00	17.05
ATOM	464	CA	VAL	60	9.882	19.760	40.423	1.00	16.87
ATOM	465	CB	VAL	60	9.330	20.273	41.785	1.00	15.81
ATOM	466	CG1	VAL	60	9.046	19.099	42.709	1.00	15.77
ATOM	467	CG2	VAL	60	10.336	21.201	42.438	1.00	15.49
ATOM	468	C	VAL	60	8.894	18.740	39.852	1.00	17.60
ATOM	469	O	VAL	60	7.805	19.099	39.406	1.00	16.90
ATOM	470	N	THR	61	9.267	17.465	39.876	1.00	18.90
ATOM	471	CA	THR	61	8.389	16.420	39.352	1.00	20.57
ATOM	472	CB	THR	61	9.124	15.590	38.252	1.00	24.68
ATOM	473	OG1	THR	61	9.451	16.440	37.146	1.00	30.75
ATOM	474	CG2	THR	61	8.261	14.425	37.760	1.00	30.08
ATOM	475	C	THR	61	7.906	15.507	40.487	1.00	17.77
ATOM	476	O	THR	61	8.408	15.581	41.606	1.00	16.02
ATOM	477	N	VAL	62	6.919	14.662	40.196	1.00	15.87
ATOM	478	CA	VAL	62	6.360	13.734	41.177	1.00	15.01
ATOM	479	CB	VAL	62	5.269	12.834	40.532	1.00	13.13
ATOM	480	CG1	VAL	62	4.831	11.742	41.512	1.00	13.60
ATOM	481	CG2	VAL	62	4.070	13.696	40.116	1.00	13.51
ATOM	482	C	VAL	62	7.428	12.837	41.784	1.00	15.22
ATOM	483	O	VAL	62	7.390	12.529	42.978	1.00	16.66
ATOM	484	N	ALA	63	8.383	12.412	40.965	1.00	15.74
ATOM	485	CA	ALA	63	9.445	11.551	41.467	1.00	14.86
ATOM	486	CB	ALA	63	10.383	11.137	40.319	1.00	16.20
ATOM	487	C	ALA	63	10.230	12.264	42.562	1.00	13.05
ATOM	488	O	ALA	63	10.579	11.655	43.573	1.00	13.87
ATOM	489	N	ASP	64	10.505	13.551	42.363	1.00	14.03
ATOM	490	CA	ASP	64	11.258	14.319	43.357	1.00	14.19

ATOM	491	CB	ASP	64	11.507	15.762	42.890	1.00	13.98
ATOM	492	CG	ASP	64	12.309	15.849	41.605	1.00	14.58
ATOM	493	OD1	ASP	64	13.170	14.975	41.351	1.00	15.44
ATOM	494	OD2	ASP	64	12.093	16.829	40.846	1.00	17.47
ATOM	495	C	ASP	64	10.492	14.355	44.679	1.00	14.42
ATOM	496	O	ASP	64	11.072	14.125	45.740	1.00	12.00
ATOM	497	N	ILE	65	9.194	14.649	44.618	1.00	13.48
ATOM	498	CA	ILE	65	8.374	14.705	45.827	1.00	13.80
ATOM	499	CB	ILE	65	6.899	15.082	45.504	1.00	11.05
ATOM	500	CG2	ILE	65	6.042	14.958	46.773	1.00	13.85
ATOM	501	CG1	ILE	65	6.822	16.488	44.929	1.00	14.20
ATOM	502	CD1	ILE	65	7.176	17.602	45.914	1.00	13.32
ATOM	503	C	ILE	65	8.382	13.359	46.551	1.00	12.47
ATOM	504	O	ILE	65	8.502	13.294	47.769	1.00	13.03
ATOM	505	N	ALA	66	8.252	12.279	45.786	1.00	12.41
ATOM	506	CA	ALA	66	8.217	10.933	46.356	1.00	9.78
ATOM	507	CB	ALA	66	7.938	9.913	45.252	1.00	9.59
ATOM	508	C	ALA	66	9.518	10.582	47.077	1.00	11.07
ATOM	509	O	ALA	66	9.529	9.899	48.103	1.00	11.14
ATOM	510	N	TYR	67	10.619	11.023	46.492	1.00	11.42
ATOM	511	CA	TYR	67	11.944	10.790	47.048	1.00	12.07
ATOM	512	CB	TYR	67	12.977	11.335	46.061	1.00	11.65
ATOM	513	CG	TYR	67	14.394	11.327	46.566	1.00	13.46
ATOM	514	CD1	TYR	67	15.120	10.146	46.641	1.00	13.65
ATOM	515	CE1	TYR	67	16.441	10.144	47.081	1.00	15.17
ATOM	516	CD2	TYR	67	15.018	12.515	46.949	1.00	16.34
ATOM	517	CE2	TYR	67	16.333	12.529	47.389	1.00	13.50
ATOM	518	CZ	TYR	67	17.039	11.340	47.451	1.00	16.29
ATOM	519	OH	TYR	67	18.351	11.348	47.874	1.00	16.32
ATOM	520	C	TYR	67	12.082	11.487	48.414	1.00	12.63
ATOM	521	O	TYR	67	12.501	10.878	49.406	1.00	12.25
ATOM	522	N	HIS	68	11.713	12.765	48.455	1.00	14.09
ATOM	523	CA	HIS	68	11.814	13.548	49.688	1.00	13.34
ATOM	524	CB	HIS	68	11.723	15.039	49.358	1.00	12.95
ATOM	525	CG	HIS	68	12.930	15.561	48.644	1.00	13.09
ATOM	526	CD2	HIS	68	13.146	15.833	47.335	1.00	13.59
ATOM	527	ND1	HIS	68	14.128	15.794	49.285	1.00	11.39
ATOM	528	CE1	HIS	68	15.030	16.185	48.403	1.00	13.50
ATOM	529	NE2	HIS	68	14.461	16.217	47.211	1.00	14.36
ATOM	530	C	HIS	68	10.771	13.147	50.722	1.00	14.18
ATOM	531	O	HIS	68	11.002	13.282	51.929	1.00	12.96
ATOM	532	N	THR	69	9.631	12.651	50.247	1.00	13.76
ATOM	533	CA	THR	69	8.572	12.193	51.125	1.00	12.86
ATOM	534	CB	THR	69	7.291	11.816	50.321	1.00	13.67
ATOM	535	OG1	THR	69	6.692	13.004	49.794	1.00	13.10
ATOM	536	CG2	THR	69	6.290	11.098	51.200	1.00	13.21
ATOM	537	C	THR	69	9.080	10.957	51.877	1.00	12.94
ATOM	538	O	THR	69	8.891	10.837	53.086	1.00	13.96
ATOM	539	N	ALA	70	9.736	10.045	51.166	1.00	12.91
ATOM	540	CA	ALA	70	10.266	8.840	51.795	1.00	12.85
ATOM	541	CB	ALA	70	10.905	7.924	50.743	1.00	16.07
ATOM	542	C	ALA	70	11.285	9.166	52.893	1.00	13.23
ATOM	543	O	ALA	70	11.278	8.543	53.959	1.00	12.96
ATOM	544	N	ALA	71	12.157	10.136	52.635	1.00	13.50
ATOM	545	CA	ALA	71	13.174	10.519	53.613	1.00	13.45
ATOM	546	CB	ALA	71	14.166	11.480	52.984	1.00	14.53
ATOM	547	C	ALA	71	12.539	11.153	54.845	1.00	14.10
ATOM	548	O	ALA	71	12.935	10.876	55.981	1.00	14.47
ATOM	549	N	VAL	72	11.542	11.999	54.622	1.00	14.55
ATOM	550	CA	VAL	72	10.861	12.654	55.736	1.00	15.46
ATOM	551	CB	VAL	72	9.830	13.682	55.227	1.00	16.14
ATOM	552	CG1	VAL	72	9.000	14.217	56.394	1.00	16.03
ATOM	553	CG2	VAL	72	10.540	14.808	54.509	1.00	16.34
ATOM	554	C	VAL	72	10.153	11.606	56.590	1.00	15.16
ATOM	555	O	VAL	72	10.183	11.668	57.824	1.00	14.69
ATOM	556	N	ARG	73	9.522	10.633	55.936	1.00	14.57
ATOM	557	CA	ARG	73	8.815	9.593	56.669	1.00	12.67
ATOM	558	CB	ARG	73	8.060	8.654	55.719	1.00	13.42
ATOM	559	CG	ARG	73	7.356	7.508	56.447	1.00	12.53
ATOM	560	CD	ARG	73	6.380	8.015	57.520	1.00	16.45
ATOM	561	NE	ARG	73	5.237	8.713	56.933	1.00	16.27
ATOM	562	CZ	ARG	73	4.358	9.437	57.617	1.00	17.72
ATOM	563	NH1	ARG	73	4.479	9.573	58.934	1.00	13.94
ATOM	564	NH2	ARG	73	3.353	10.027	56.982	1.00	16.25
ATOM	565	C	ARG	73	9.748	8.767	57.540	1.00	12.87
ATOM	566	O	ARG	73	9.369	8.343	58.631	1.00	13.64
ATOM	567	N	ARG	74	10.963	8.524	57.057	1.00	14.65



ATOM	568	CA	ARG	74	11.926	7.738	57.823	1.00	13.53
ATOM	569	CB	ARG	74	13.155	7.405	56.975	1.00	15.28
ATOM	570	CG	ARG	74	12.860	6.543	55.752	1.00	16.51
ATOM	571	CD	ARG	74	14.133	5.937	55.155	1.00	17.73
ATOM	572	NE	ARC	74	13.895	5.341	53.838	1.00	20.82
ATOM	573	CZ	ARG	74	13.896	6.020	52.694	1.00	22.35
ATOM	574	NH1	ARG	74	14.127	7.325	52.688	1.00	23.90
ATOM	575	NH2	ARG	74	13.656	5.397	51.552	1.00	27.63
ATOM	576	C	ARG	74	12.355	8.513	59.052	1.00	16.13
ATOM	577	O	ARG	74	12.673	7.932	60.093	1.00	16.86
ATOM	578	N	GLY	75	12.359	9.834	58.923	1.00	16.62
ATOM	579	CA	GLY	75	12.753	10.681	60.035	1.00	17.65
ATOM	580	C	GLY	75	11.629	10.935	61.019	1.00	17.81
ATOM	581	O	GLY	75	11.865	11.107	62.215	1.00	17.98
ATOM	582	N	ALA	76	10.398	10.952	60.525	1.00	17.56
ATOM	583	CA	ALA	76	9.240	11.210	61.385	1.00	17.19
ATOM	584	CB	ALA	76	8.767	12.640	61.173	1.00	16.95
ATOM	585	C	ALA	76	8.108	10.229	61.094	1.00	18.56
ATOM	586	O	ALA	76	7.100	10.590	60.492	1.00	18.58
ATOM	587	N	PRO	77	8.255	8.976	61.549	1.00	20.24
ATOM	588	CD	PRO	77	9.361	8.507	62.400	1.00	21.81
ATOM	589	CA	PRO	77	7.271	7.908	61.348	1.00	20.91
ATOM	590	CB	PRO	77	7.949	6.698	61.982	1.00	22.03
ATOM	591	CG	PRO	77	8.749	7.303	63.072	1.00	25.30
ATOM	592	C	PRO	77	5.870	8.138	61.902	1.00	20.81
ATOM	593	O	PRO	77	4.929	7.462	61.488	1.00	20.60
ATOM	594	N	ASN	78	5.720	9.080	62.828	1.00	19.26
ATOM	595	CA	ASN	78	4.402	9.342	63.399	1.00	20.69
ATOM	596	CB	ASN	78	4.449	9.242	64.932	1.00	22.75
ATOM	597	CG	ASN	78	4.554	7.806	65.414	1.00	27.00
ATOM	598	OD1	ASN	78	3.772	6.951	65.001	1.00	31.16
ATOM	599	ND2	ASN	78	5.515	7.534	66.287	1.00	29.98
ATOM	600	C	ASN	78	3.821	10.693	62.992	1.00	19.38
ATOM	601	O	ASN	78	2.750	11.076	63.456	1.00	21.43
ATOM	602	N	CYS	79	4.507	11.399	62.104	1.00	17.77
ATOM	603	CA	CYS	79	4.040	12.713	61.686	1.00	19.13
ATOM	604	CB	CYS	79	5.210	13.553	61.150	1.00	19.79
ATOM	605	SG	CYS	79	5.646	13.275	59.389	1.00	24.05
ATOM	606	C	CYS	79	2.938	12.667	60.633	1.00	19.96
ATOM	607	O	CYS	79	2.735	11.652	59.961	1.00	17.94
ATOM	608	N	LEU	80	2.202	13.770	60.528	1.00	19.53
ATOM	609	CA	LEU	80	1.163	13.904	59.519	1.00	19.26
ATOM	610	CB	LEU	80	0.054	14.860	59.978	1.00	20.96
ATOM	611	CG	LEU	80	-0.984	15.225	58.909	1.00	21.27
ATOM	612	CD1	LEU	80	-1.670	13.967	58.396	1.00	22.20
ATOM	613	CD2	LEU	80	-2.008	16.195	59.488	1.00	22.16
ATOM	614	C	LEU	80	1.962	14.527	58.387	1.00	18.90
ATOM	615	O	LEU	80	2.442	15.655	58.509	1.00	18.11
ATOM	616	N	LEU	81	2.120	13.788	57.294	1.00	15.94
ATOM	617	CA	LEU	81	2.924	14.261	56.181	1.00	16.28
ATOM	618	CB	LEU	81	3.930	13.169	55.775	1.00	18.46
ATOM	619	CG	LEU	81	5.213	13.532	55.008	1.00	18.26
ATOM	620	CD1	LEU	81	6.102	12.304	54.937	1.00	18.48
ATOM	621	CD2	LEU	81	4.884	14.038	53.605	1.00	21.41
ATOM	622	C	LEU	81	2.090	14.669	54.986	1.00	16.06
ATOM	623	O	LEU	81	1.357	13.857	54.417	1.00	16.48
ATOM	624	N	LEU	82	2.183	15.944	54.628	1.00	16.31
ATOM	625	CA	LEU	82	1.457	16.466	53.477	1.00	17.30
ATOM	626	CB	LEU	82	0.897	17.859	53.766	1.00	19.25
ATOM	627	CG	LEU	82	-0.451	17.985	54.495	1.00	22.19
ATOM	628	CD1	LEU	82	-0.449	17.200	55.792	1.00	21.32
ATOM	629	CD2	LEU	82	-0.720	19.462	54.750	1.00	21.16
ATOM	630	C	LEU	82	2.458	16.557	52.342	1.00	17.89
ATOM	631	O	LEU	82	3.560	17.068	52.531	1.00	18.88
ATOM	632	N	ALA	83	2.092	16.053	51.171	1.00	16.82
ATOM	633	CA	ALA	83	2.997	16.114	50.033	1.00	16.39
ATOM	634	CB	ALA	83	3.406	14.720	49.607	1.00	16.49
ATOM	635	C	ALA	83	2.337	16.841	48.881	1.00	14.35
ATOM	636	O	ALA	83	1.186	16.579	48.554	1.00	14.15
ATOM	637	N	ASP	84	3.058	17.775	48.274	1.00	13.95
ATOM	638	CA	ASP	84	2.498	18.505	47.148	1.00	16.00
ATOM	639	CB	ASP	84	3.268	19.799	46.893	1.00	22.80
ATOM	640	CG	ASP	84	2.767	20.957	47.723	1.00	24.54
ATOM	641	OD1	ASP	84	1.548	21.195	47.752	1.00	30.38
ATOM	642	OD2	ASP	84	3.602	21.644	48.329	1.00	32.60
ATOM	643	C	ASP	84	2.526	17.716	45.851	1.00	16.16
ATOM	644	O	ASP	84	3.400	16.875	45.640	1.00	14.13

ATOM	645	N	LEU	85	1.535	17.967	44.998	1.00	15.10
ATOM	646	CA	LEU	85	1.539	17.381	43.667	1.00	15.19
ATOM	647	CB	LEU	85	0.127	17.043	43.167	1.00	16.96
ATOM	648	CG	LEU	85	-0.451	15.751	43.751	1.00	17.98
ATOM	649	CD1	LEU	85	-1.753	15.360	43.028	1.00	17.36
ATOM	650	CD2	LEU	85	0.574	14.639	43.604	1.00	17.58
ATOM	651	C	LEU	85	2.111	18.593	42.937	1.00	14.95
ATOM	652	O	LEU	85	1.563	19.694	43.024	1.00	15.92
ATOM	653	N	PRO	86	3.255	18.419	42.262	1.00	14.05
ATOM	654	CD	PRO	86	3.984	17.143	42.170	1.00	15.98
ATOM	655	CA	PRO	86	3.949	19.473	41.518	1.00	15.84
ATOM	656	CB	PRO	86	5.306	18.839	41.224	1.00	16.60
ATOM	657	CG	PRO	86	4.933	17.386	41.018	1.00	16.94
ATOM	658	C	PRO	86	3.249	19.970	40.255	1.00	17.90
ATOM	659	O	PRO	86	2.161	19.515	39.899	1.00	17.49
ATOM	660	N	PHE	87	3.897	20.917	39.591	1.00	17.02
ATOM	661	CA	PHE	87	3.386	21.509	38.371	1.00	18.00
ATOM	662	CB	PHE	87	4.486	22.357	37.728	1.00	19.87
ATOM	663	CG	PHE	87	4.125	22.906	36.383	1.00	19.63
ATOM	664	CD1	PHE	87	3.025	23.739	36.229	1.00	19.99
ATOM	665	CD2	PHE	87	4.893	22.588	35.265	1.00	20.71
ATOM	666	CE1	PHE	87	2.692	24.249	34.982	1.00	21.55
ATOM	667	CE2	PHE	87	4.567	23.095	34.012	1.00	20.03
ATOM	668	CZ	PHE	87	3.466	23.926	33.870	1.00	21.84
ATOM	669	C	PHE	87	2.871	20.467	37.373	1.00	17.52
ATOM	670	O	PHE	87	3.561	19.495	37.051	1.00	16.53
ATOM	671	N	MET	88	1.644	20.682	36.909	1.00	16.65
ATOM	672	CA	MET	88	0.984	19.816	35.936	1.00	18.63
ATOM	673	CB	MET	88	1.666	19.944	34.575	1.00	20.77
ATOM	674	CG	MET	88	0.767	19.578	33.413	1.00	22.54
ATOM	675	SD	MET	88	-0.593	20.732	33.216	1.00	21.14
ATOM	676	CE	MET	88	0.111	21.920	32.099	1.00	22.91
ATOM	677	C	MET	88	0.931	18.340	36.326	1.00	19.33
ATOM	678	O	MET	88	0.987	17.463	35.461	1.00	22.28
ATOM	679	N	ALA	89	0.822	18.062	37.619	1.00	17.87
ATOM	680	CA	ALA	89	0.749	16.685	38.086	1.00	17.24
ATOM	681	CB	ALA	89	1.609	16.506	39.333	1.00	18.47
ATOM	682	C	ALA	89	-0.701	16.285	38.379	1.00	16.90
ATOM	683	O	ALA	89	-0.978	15.164	38.816	1.00	17.43
ATOM	684	N	TYR	90	-1.624	17.209	38.145	1.00	16.10
ATOM	685	CA	TYR	90	-3.041	16.942	38.364	1.00	15.59
ATOM	686	CB	TYR	90	-3.452	17.350	39.790	1.00	14.88
ATOM	687	CG	TYR	90	-2.959	18.715	40.223	1.00	15.60
ATOM	688	CD1	TYR	90	-3.753	19.854	40.064	1.00	17.89
ATOM	689	CE1	TYR	90	-3.288	21.117	40.454	1.00	17.95
ATOM	690	CD2	TYR	90	-1.690	18.870	40.782	1.00	17.54
ATOM	691	CE2	TYR	90	-1.217	20.122	41.173	1.00	17.49
ATOM	692	CZ	TYR	90	-2.016	21.235	41.008	1.00	18.23
ATOM	693	OH	TYR	90	-1.543	22.470	41.404	1.00	19.18
ATOM	694	C	TYR	90	-3.885	17.666	37.322	1.00	15.82
ATOM	695	O	TYR	90	-4.937	18.225	37.628	1.00	17.20
ATOM	696	N	ALA	91	-3.412	17.628	36.079	1.00	16.74
ATOM	697	CA	ALA	91	-4.085	18.272	34.959	1.00	17.95
ATOM	698	CB	ALA	91	-3.177	18.262	33.731	1.00	18.19
ATOM	699	C	ALA	91	-5.425	17.611	34.631	1.00	17.59
ATOM	700	O	ALA	91	-6.289	18.230	34.010	1.00	16.62
ATOM	701	N	THR	92	-5.580	16.347	35.015	1.00	16.91
ATOM	702	CA	THR	92	-6.838	15.619	34.811	1.00	15.64
ATOM	703	CB	THR	92	-6.821	14.689	33.566	1.00	17.31
ATOM	704	OG1	THR	92	-5.942	13.582	33.804	1.00	15.34
ATOM	705	CG2	THR	92	-6.369	15.438	32.322	1.00	15.98
ATOM	706	C	THR	92	-7.052	14.720	36.021	1.00	16.55
ATOM	707	O	THR	92	-6.097	14.366	36.711	1.00	17.07
ATOM	708	N	PRO	93	-8.310	14.339	36.299	1.00	16.42
ATOM	709	CD	PRO	93	-9.570	14.771	35.669	1.00	17.40
ATOM	710	CA	PRO	93	-8.568	13.470	37.447	1.00	15.13
ATOM	711	CB	PRO	93	-10.056	13.168	37.312	1.00	17.06
ATOM	712	CG	PRO	93	-10.589	14.464	36.750	1.00	16.77
ATOM	713	C	PRO	93	-7.696	12.210	37.411	1.00	16.09
ATOM	714	O	PRO	93	-7.028	11.879	38.396	1.00	13.79
ATOM	715	N	GLU	94	-7.689	11.517	36.273	1.00	16.39
ATOM	716	CA	GLU	94	-6.882	10.305	36.120	1.00	17.29
ATOM	717	CB	GLU	94	-6.948	9.791	34.680	1.00	20.57
ATOM	718	CG	GLU	94	-8.040	8.779	34.426	1.00	27.03
ATOM	719	CD	GLU	94	-7.968	8.209	33.024	1.00	30.80
ATOM	720	OE1	GLU	94	-6.908	7.660	32.659	1.00	34.96
ATOM	721	OE2	GLU	94	-8.965	8.309	32.285	1.00	36.52

ATOM	722	C	GLU	94	-5.418	10.492	36.497	1.00	17.89
ATOM	723	O	GLU	94	-4.846	9.658	37.194	1.00	16.77
ATOM	724	N	GLN	95	-4.806	11.573	36.029	1.00	15.83
ATOM	725	CA	GLN	95	-3.408	11.811	36.350	1.00	16.28
ATOM	726	CB	GLN	95	-2.845	12.932	35.491	1.00	18.34
ATOM	727	CG	GLN	95	-2.936	12.662	34.002	1.00	24.91
ATOM	728	CD	GLN	95	-2.424	13.826	33.189	1.00	29.82
ATOM	729	OE1	GLN	95	-1.215	14.043	33.081	1.00	31.53
ATOM	730	NE2	GLN	95	-3.347	14.606	32.632	1.00	31.62
ATOM	731	C	GLN	95	-3.232	12.144	37.817	1.00	13.83
ATOM	732	O	GLN	95	-2.245	11.743	38.422	1.00	14.18
ATOM	733	N	ALA	96	-4.173	12.888	38.393	1.00	12.99
ATOM	734	CA	ALA	96	-4.071	13.213	39.813	1.00	11.89
ATOM	735	CB	ALA	96	-5.229	14.113	40.243	1.00	10.87
ATOM	736	C	ALA	96	-4.090	11.911	40.611	1.00	12.60
ATOM	737	O	ALA	96	-3.311	11.746	41.549	1.00	11.80
ATOM	738	N	PHE	97	-4.970	10.979	40.236	1.00	12.82
ATOM	739	CA	PHE	97	-5.050	9.709	40.956	1.00	13.08
ATOM	740	CB	PHE	97	-6.072	8.741	40.332	1.00	13.33
ATOM	741	CG	PHE	97	-7.459	9.303	40.173	1.00	14.06
ATOM	742	CD1	PHE	97	-7.975	10.220	41.079	1.00	14.07
ATOM	743	CD2	PHE	97	-8.254	8.891	39.113	1.00	13.38
ATOM	744	CE1	PHE	97	-9.273	10.725	40.931	1.00	11.22
ATOM	745	CE2	PHE	97	-9.556	9.385	38.948	1.00	13.40
ATOM	746	CZ	PHE	97	-10.061	10.302	39.859	1.00	11.20
ATOM	747	C	PHE	97	-3.699	8.990	40.975	1.00	13.62
ATOM	748	O	PHE	97	-3.244	8.552	42.026	1.00	13.09
ATOM	749	N	GLU	98	-3.064	8.856	39.815	1.00	14.92
ATOM	750	CA	GLU	98	-1.786	8.154	39.768	1.00	16.75
ATOM	751	CB	GLU	98	-1.356	7.859	38.327	1.00	20.44
ATOM	752	CG	GLU	98	-0.045	7.064	38.268	1.00	28.53
ATOM	753	CD	GLU	98	-0.113	5.768	39.066	1.00	33.54
ATOM	754	OE1	GLU	98	-0.767	4.810	38.587	1.00	35.57
ATOM	755	OE2	GLU	98	0.472	5.706	40.187	1.00	34.76
ATOM	756	C	GLU	98	-0.660	8.888	40.480	1.00	14.28
ATOM	757	O	GLU	98	0.134	8.275	41.198	1.00	14.65
ATOM	758	N	ASN	99	-0.580	10.196	40.294	1.00	12.45
ATOM	759	CA	ASN	99	0.490	10.944	40.941	1.00	11.69
ATOM	760	CB	ASN	99	0.627	12.329	40.299	1.00	11.89
ATOM	761	CG	ASN	99	1.172	12.238	38.890	1.00	12.59
ATOM	762	OD1	ASN	99	2.019	11.384	38.609	1.00	13.02
ATOM	763	ND2	ASN	99	0.707	13.105	38.002	1.00	13.56
ATOM	764	C	ASN	99	0.286	11.026	42.451	1.00	13.55
ATOM	765	O	ASN	99	1.256	10.953	43.216	1.00	11.87
ATOM	766	N	ALA	100	-0.970	11.157	42.879	1.00	12.15
ATOM	767	CA	ALA	100	-1.284	11.189	44.306	1.00	14.14
ATOM	768	CB	ALA	100	-2.777	11.489	44.531	1.00	13.05
ATOM	769	C	ALA	100	-0.940	9.814	44.878	1.00	12.60
ATOM	770	O	ALA	100	-0.347	9.709	45.953	1.00	13.66
ATOM	771	N	ALA	101	-1.312	8.748	44.175	1.00	12.06
ATOM	772	CA	ALA	101	-0.999	7.412	44.679	1.00	10.87
ATOM	773	CB	ALA	101	-1.590	6.338	43.755	1.00	10.90
ATOM	774	C	ALA	101	0.517	7.204	44.853	1.00	10.31
ATOM	775	O	ALA	101	0.953	6.543	45.794	1.00	12.24
ATOM	776	N	THR	102	1.322	7.766	43.958	1.00	10.77
ATOM	777	CA	THR	102	2.781	7.606	44.046	1.00	10.62
ATOM	778	CB	THR	102	3.450	8.244	42.833	1.00	11.82
ATOM	779	OG1	THR	102	3.011	7.556	41.648	1.00	12.54
ATOM	780	CG2	THR	102	4.965	8.143	42.934	1.00	13.14
ATOM	781	C	THR	102	3.329	8.218	45.331	1.00	12.67
ATOM	782	O	THR	102	4.122	7.609	46.053	1.00	13.26
ATOM	783	N	VAL	103	2.872	9.430	45.608	1.00	13.06
ATOM	784	CA	VAL	103	3.275	10.178	46.786	1.00	17.15
ATOM	785	CB	VAL	103	2.771	11.622	46.644	1.00	20.15
ATOM	786	CG1	VAL	103	2.563	12.250	47.990	1.00	26.49
ATOM	787	CG2	VAL	103	3.758	12.408	45.807	1.00	21.10
ATOM	788	C	VAL	103	2.769	9.533	48.084	1.00	16.61
ATOM	789	O	VAL	103	3.477	9.519	49.097	1.00	14.86
ATOM	790	N	MET	104	1.554	8.989	48.048	1.00	13.98
ATOM	791	CA	MET	104	0.976	8.336	49.219	1.00	13.90
ATOM	792	CB	MET	104	-0.514	8.053	48.997	1.00	16.23
ATOM	793	CG	MET	104	-1.373	9.288	48.838	1.00	20.48
ATOM	794	SD	MET	104	-1.516	10.232	50.350	1.00	23.82
ATOM	795	CE	MET	104	-2.587	9.130	51.315	1.00	23.65
ATOM	796	C	MET	104	1.701	7.031	49.537	1.00	13.22
ATOM	797	O	MET	104	1.979	6.735	50.707	1.00	13.56
ATOM	798	N	ARG	105	2.008	6.242	48.508	1.00	13.42

ATOM	799	CA	ARG	105	2.711	4.989	48.743	1.00	11.59
ATOM	800	CB	ARG	105	2.817	4.152	47.453	1.00	14.28
ATOM	801	CG	ARG	105	1.492	3.637	46.914	1.00	15.18
ATOM	802	CD	ARG	105	1.673	2.542	45.848	1.00	15.37
ATOM	803	NE	ARG	105	0.436	2.355	45.086	1.00	18.07
ATOM	804	CZ	ARG	105	0.151	2.986	43.951	1.00	16.17
ATOM	805	NH1	ARG	105	1.021	3.837	43.420	1.00	14.58
ATOM	806	NH2	ARG	105	-1.030	2.802	43.376	1.00	16.92
ATOM	807	C	ARG	105	4.112	5.296	49.275	1.00	10.65
ATOM	808	O	ARG	105	4.684	4.494	50.009	1.00	12.75
ATOM	809	N	ALA	106	4.645	6.463	48.916	1.00	12.09
ATOM	810	CA	ALA	106	5.978	6.873	49.346	1.00	13.06
ATOM	811	CB	ALA	106	6.496	7.999	48.455	1.00	14.76
ATOM	812	C	ALA	106	6.015	7.305	50.807	1.00	15.39
ATOM	813	O	ALA	106	7.094	7.529	51.365	1.00	15.17
ATOM	814	N	GLY	107	4.841	7.430	51.420	1.00	14.50
ATOM	815	CA	GLY	107	4.779	7.806	52.821	1.00	14.87
ATOM	816	C	GLY	107	3.904	8.991	53.207	1.00	15.59
ATOM	817	O	GLY	107	3.751	9.273	54.393	1.00	16.79
ATOM	818	N	ALA	108	3.331	9.691	52.238	1.00	13.12
ATOM	819	CA	ALA	108	2.484	10.833	52.569	1.00	13.97
ATOM	820	CB	ALA	108	2.307	11.724	51.342	1.00	14.04
ATOM	821	C	ALA	108	1.122	10.374	53.099	1.00	14.46
ATOM	822	O	ALA	108	0.696	9.251	52.834	1.00	14.12
ATOM	823	N	ASN	109	0.461	11.230	53.880	1.00	14.94
ATOM	824	CA	ASN	109	-0.863	10.919	54.440	1.00	14.90
ATOM	825	CB	ASN	109	-0.947	11.277	55.931	1.00	14.17
ATOM	826	CG	ASN	109	0.012	10.493	56.790	1.00	14.97
ATOM	827	OD1	ASN	109	-0.101	9.276	56.926	1.00	16.84
ATOM	828	ND2	ASN	109	0.959	11.193	57.388	1.00	14.33
ATOM	829	C	ASN	109	-1.901	11.781	53.737	1.00	13.58
ATOM	830	O	ASN	109	-3.102	11.556	53.870	1.00	15.82
ATOM	831	N	MET	110	-1.427	12.768	52.991	1.00	13.54
ATOM	832	CA	MET	110	-2.316	13.704	52.332	1.00	14.31
ATOM	833	CB	MET	110	-2.828	14.688	53.394	1.00	14.27
ATOM	834	CG	MET	110	-3.595	15.902	52.910	1.00	19.21
ATOM	835	SD	MET	110	-4.143	16.871	54.371	1.00	20.75
ATOM	836	CE	MET	110	-5.845	16.364	54.495	1.00	18.93
ATOM	837	C	MET	110	-1.576	14.431	51.219	1.00	13.50
ATOM	838	O	MET	110	-0.358	14.635	51.285	1.00	14.01
ATOM	839	N	VAL	111	-2.323	14.810	50.191	1.00	13.28
ATOM	840	CA	VAL	111	-1.765	15.507	49.050	1.00	15.44
ATOM	841	CB	VAL	111	-2.175	14.786	47.752	1.00	18.91
ATOM	842	CG1	VAL	111	-1.800	15.614	46.564	1.00	21.41
ATOM	843	CG2	VAL	111	-1.504	13.416	47.691	1.00	16.70
ATOM	844	C	VAL	111	-2.271	16.944	49.000	1.00	15.84
ATOM	845	O	VAL	111	-3.420	17.209	49.344	1.00	16.27
ATOM	846	N	LYS	112	-1.411	17.869	48.586	1.00	18.00
ATOM	847	CA	LYS	112	-1.810	19.266	48.475	1.00	17.62
ATOM	848	CB	LYS	112	-0.912	20.174	49.324	1.00	16.94
ATOM	849	CG	LYS	112	-1.299	21.650	49.203	1.00	18.28
ATOM	850	CD	LYS	112	-0.768	22.491	50.354	1.00	20.19
ATOM	851	CE	LYS	112	0.738	22.675	50.288	1.00	21.39
ATOM	852	NZ	LYS	112	1.171	23.485	49.116	1.00	22.77
ATOM	853	C	LYS	112	-1.738	19.707	47.022	1.00	18.52
ATOM	854	O	LYS	112	-0.741	19.461	46.330	1.00	18.26
ATOM	855	N	ILE	113	-2.800	20.360	46.563	1.00	18.70
ATOM	856	CA	ILE	113	-2.878	20.836	45.187	1.00	19.67
ATOM	857	CB	ILE	113	-3.852	19.967	44.359	1.00	20.73
ATOM	858	CG2	ILE	113	-3.270	18.573	44.169	1.00	20.69
ATOM	859	CG1	ILE	113	-5.201	19.870	45.067	1.00	21.18
ATOM	860	CD1	ILE	113	-6.238	19.041	44.316	1.00	22.35
ATOM	861	C	ILE	113	-3.349	22.288	45.139	1.00	20.68
ATOM	862	O	ILE	113	-4.206	22.694	45.919	1.00	23.09
ATOM	863	N	GLU	114	-2.775	23.055	44.217	1.00	20.92
ATOM	864	CA	GLU	114	-3.094	24.468	44.041	1.00	22.18
ATOM	865	CB	GLU	114	-1.872	25.219	43.510	1.00	23.81
ATOM	866	CG	GLU	114	-0.715	25.328	44.478	1.00	25.94
ATOM	867	CD	GLU	114	0.474	26.052	43.872	1.00	27.17
ATOM	868	OE1	GLU	114	0.296	26.741	42.844	1.00	28.77
ATOM	869	OE2	GLU	114	1.588	25.947	44.427	1.00	29.32
ATOM	870	C	GLU	114	-4.247	24.707	43.074	1.00	23.10
ATOM	871	O	GLU	114	-4.325	24.072	42.025	1.00	22.98
ATOM	872	N	GLY	115	-5.135	25.636	43.420	1.00	22.55
ATOM	873	CA	GLY	115	-6.246	25.933	42.534	1.00	24.88
ATOM	874	C	GLY	115	-7.581	26.079	43.230	1.00	24.82
ATOM	875	O	GLY	115	-7.720	25.743	44.406	1.00	26.26

ATOM	876	N	GLY	116	-8.569	26.582	42.496	1.00	25.06
ATOM	877	CA	GLY	116	-9.889	26.767	43.066	1.00	25.41
ATOM	878	C	GLY	116	-10.964	25.864	42.490	1.00	26.85
ATOM	879	O	GLY	116	-10.767	24.659	42.346	1.00	26.53
ATOM	880	N	GLU	117	-12.105	26.468	42.166	1.00	26.32
ATOM	881	CA	GLU	117	-13.268	25.782	41.606	1.00	27.23
ATOM	882	CB	GLU	117	-14.205	26.810	40.959	1.00	31.55
ATOM	883	CG	GLU	117	-15.191	27.444	41.923	1.00	36.76
ATOM	884	CD	GLU	117	-16.448	26.615	42.091	1.00	40.05
ATOM	885	OE1	GLU	117	-16.341	25.369	42.112	1.00	39.80
ATOM	886	OE2	GLU	117	-17.543	27.210	42.211	1.00	41.02
ATOM	887	C	GLU	117	-13.021	24.661	40.602	1.00	24.91
ATOM	888	O	GLU	117	-13.621	23.592	40.715	1.00	24.23
ATOM	889	N	TRP	118	-12.155	24.904	39.622	1.00	23.95
ATOM	890	CA	TRP	118	-11.880	23.906	38.588	1.00	23.05
ATOM	891	CB	TRP	118	-10.853	24.437	37.574	1.00	22.93
ATOM	892	CG	TRP	118	-9.417	24.433	38.027	1.00	22.06
ATOM	893	CD2	TRP	118	-8.430	23.432	37.736	1.00	22.29
ATOM	894	CE2	TRP	118	-7.227	23.836	38.356	1.00	21.75
ATOM	895	CE3	TRP	118	-8.449	22.231	37.015	1.00	21.59
ATOM	896	CD1	TRP	118	-8.787	25.377	38.790	1.00	22.77
ATOM	897	NE1	TRP	118	-7.472	25.027	38.989	1.00	23.97
ATOM	898	CZ2	TRP	118	-6.049	23.082	38.272	1.00	21.19
ATOM	899	CZ3	TRP	118	-7.273	21.478	36.932	1.00	19.76
ATOM	900	CH2	TRP	118	-6.093	21.908	37.558	1.00	18.03
ATOM	901	C	TRP	118	-11.415	22.562	39.137	1.00	22.73
ATOM	902	O	TRP	118	-11.504	21.542	38.453	1.00	22.61
ATOM	903	N	LEU	119	-10.933	22.563	40.375	1.00	22.53
ATOM	904	CA	LEU	119	-10.445	21.343	41.017	1.00	21.12
ATOM	905	CB	LEU	119	-9.323	21.686	42.000	1.00	22.00
ATOM	906	CG	LEU	119	-7.951	21.956	41.397	1.00	22.79
ATOM	907	CD1	LEU	119	-6.976	22.370	42.489	1.00	23.33
ATOM	908	CD2	LEU	119	-7.469	20.690	40.691	1.00	24.30
ATOM	909	C	LEU	119	-11.502	20.541	41.759	1.00	20.72
ATOM	910	O	LEU	119	-11.232	19.422	42.193	1.00	21.92
ATOM	911	N	VAL	120	-12.699	21.101	41.908	1.00	19.20
ATOM	912	CA	VAL	120	-13.766	20.419	42.638	1.00	19.95
ATOM	913	CB	VAL	120	-15.127	21.122	42.429	1.00	22.03
ATOM	914	CG1	VAL	120	-16.258	20.225	42.907	1.00	24.11
ATOM	915	CG2	VAL	120	-15.150	22.429	43.201	1.00	25.29
ATOM	916	C	VAL	120	-13.921	18.940	42.301	1.00	18.47
ATOM	917	O	VAL	120	-13.961	18.093	43.196	1.00	16.89
ATOM	918	N	GLU	121	-14.004	18.624	41.015	1.00	17.81
ATOM	919	CA	GLU	121	-14.163	17.237	40.611	1.00	17.82
ATOM	920	CB	GLU	121	-14.344	17.150	39.094	1.00	21.67
ATOM	921	CG	GLU	121	-14.418	15.728	38.576	1.00	25.89
ATOM	922	CD	GLU	121	-14.824	15.658	37.114	1.00	31.46
ATOM	923	OE1	GLU	121	-14.246	16.399	36.290	1.00	33.28
ATOM	924	OE2	GLU	121	-15.717	14.848	36.793	1.00	33.12
ATOM	925	C	GLU	121	-12.977	16.385	41.057	1.00	16.63
ATOM	926	O	GLU	121	-13.153	15.288	41.592	1.00	15.69
ATOM	927	N	THR	122	-11.772	16.901	40.846	1.00	16.55
ATOM	928	CA	THR	122	-10.557	16.188	41.230	1.00	15.50
ATOM	929	CB	THR	122	-9.291	17.010	40.858	1.00	16.20
ATOM	930	OG1	THR	122	-9.292	17.251	39.447	1.00	18.56
ATOM	931	CG2	THR	122	-8.009	16.250	41.215	1.00	15.78
ATOM	932	C	THR	122	-10.571	15.891	42.729	1.00	15.85
ATOM	933	O	THR	122	-10.300	14.769	43.145	1.00	14.26
ATOM	934	N	VAL	123	-10.905	16.890	43.539	1.00	16.07
ATOM	935	CA	VAL	123	-10.942	16.691	44.982	1.00	15.30
ATOM	936	CB	VAL	123	-11.265	17.993	45.722	1.00	16.32
ATOM	937	CG1	VAL	123	-11.382	17.733	47.217	1.00	15.84
ATOM	938	CG2	VAL	123	-10.194	19.023	45.431	1.00	17.06
ATOM	939	C	VAL	123	-11.964	15.649	45.392	1.00	16.79
ATOM	940	O	VAL	123	-11.685	14.793	46.237	1.00	13.71
ATOM	941	N	GLN	124	-13.155	15.728	44.803	1.00	15.90
ATOM	942	CA	GLN	124	-14.227	14.790	45.122	1.00	17.82
ATOM	943	CB	GLN	124	-15.498	15.146	44.333	1.00	19.74
ATOM	944	CG	GLN	124	-16.018	16.566	44.586	1.00	27.73
ATOM	945	CD	GLN	124	-17.335	16.871	43.871	1.00	30.08
ATOM	946	OE1	GLN	124	-17.414	16.825	42.641	1.00	33.03
ATOM	947	NE2	GLN	124	-18.370	17.190	44.643	1.00	28.31
ATOM	948	C	GLN	124	-13.820	13.350	44.815	1.00	18.29
ATOM	949	O	GLN	124	-14.045	12.439	45.621	1.00	17.54
ATOM	950	N	MET	125	-13.218	13.151	43.648	1.00	16.58
ATOM	951	CA	MET	125	-12.798	11.820	43.239	1.00	17.11
ATOM	952	CB	MET	125	-12.553	11.792	41.725	1.00	17.13

ATOM	953	CG	MET	125	-13.843	12.007	40.930	1.00	20.76
ATOM	954	SD	MET	125	-13.598	12.024	39.156	1.00	21.82
ATOM	955	CE	MET	125	-13.472	10.274	38.825	1.00	24.59
ATOM	956	C	MET	125	-11.578	11.317	44.011	1.00	15.45
ATOM	957	O	MET	125	-11.513	10.143	44.357	1.00	15.81
ATOM	958	N	LEU	126	-10.618	12.192	44.283	1.00	15.52
ATOM	959	CA	LEU	126	-9.458	11.776	45.047	1.00	16.42
ATOM	960	CB	LEU	126	-8.486	12.941	45.215	1.00	15.46
ATOM	961	CG	LEU	126	-7.491	13.096	44.056	1.00	16.54
ATOM	962	CD1	LEU	126	-6.769	14.429	44.166	1.00	17.29
ATOM	963	CD2	LEU	126	-6.498	11.933	44.087	1.00	16.74
ATOM	964	C	LEU	126	-9.914	11.264	46.416	1.00	17.65
ATOM	965	O	LEU	126	-9.459	10.217	46.882	1.00	15.07
ATOM	966	N	THR	127	-10.831	12.001	47.043	1.00	18.88
ATOM	967	CA	THR	127	-11.370	11.648	48.357	1.00	22.38
ATOM	968	CB	THR	127	-12.489	12.630	48.788	1.00	24.31
ATOM	969	OG1	THR	127	-11.971	13.967	48.825	1.00	30.18
ATOM	970	CG2	THR	127	-13.018	12.265	50.167	1.00	28.58
ATOM	971	C	THR	127	-11.950	10.235	48.406	1.00	21.91
ATOM	972	O	THR	127	-11.594	9.439	49.279	1.00	20.97
ATOM	973	N	GLU	128	-12.854	9.920	47.482	1.00	23.67
ATOM	974	CA	GLU	128	-13.455	8.589	47.473	1.00	22.51
ATOM	975	CB	GLU	128	-14.643	8.532	46.499	1.00	26.49
ATOM	976	CG	GLU	128	-14.656	9.613	45.450	1.00	27.76
ATOM	977	CD	GLU	128	-15.846	9.512	44.501	1.00	26.90
ATOM	978	OE1	GLU	128	-17.002	9.469	44.969	1.00	26.96
ATOM	979	OE2	GLU	128	-15.625	9.488	43.281	1.00	26.94
ATOM	980	C	GLU	128	-12.435	7.505	47.140	1.00	22.91
ATOM	981	O	GLU	128	-12.641	6.333	47.458	1.00	22.08
ATOM	982	N	ARG	129	-11.324	7.895	46.520	1.00	19.89
ATOM	983	CA	ARG	129	-10.291	6.929	46.176	1.00	19.15
ATOM	984	CB	ARG	129	-9.713	7.256	44.792	1.00	18.25
ATOM	985	CG	ARG	129	-10.712	6.934	43.664	1.00	18.33
ATOM	986	CD	ARG	129	-10.483	7.728	42.382	1.00	16.74
ATOM	987	NE	ARG	129	-11.514	7.426	41.386	1.00	14.27
ATOM	988	CZ	ARG	129	-12.793	7.779	41.491	1.00	16.92
ATOM	989	NH1	ARG	129	-13.220	8.459	42.547	1.00	14.64
ATOM	990	NH2	ARG	129	-13.654	7.440	40.544	1.00	15.04
ATOM	991	C	ARG	129	-9.202	6.856	47.260	1.00	19.41
ATOM	992	O	ARG	129	-8.045	6.521	46.987	1.00	18.30
ATOM	993	N	ALA	130	-9.616	7.174	48.488	1.00	19.07
ATOM	994	CA	ALA	130	-8.789	7.129	49.697	1.00	17.95
ATOM	995	CB	ALA	130	-8.201	5.722	49.868	1.00	16.84
ATOM	996	C	ALA	130	-7.674	8.164	49.860	1.00	18.35
ATOM	997	O	ALA	130	-6.821	8.015	50.738	1.00	17.72
ATOM	998	N	VAL	131	-7.684	9.211	49.043	1.00	18.16
ATOM	999	CA	VAL	131	-6.656	10.236	49.123	1.00	18.21
ATOM	1000	CB	VAL	131	-6.059	10.538	47.733	1.00	18.83
ATOM	1001	CG1	VAL	131	-4.972	11.599	47.856	1.00	19.02
ATOM	1002	CG2	VAL	131	-5.502	9.264	47.124	1.00	18.78
ATOM	1003	C	VAL	131	-7.162	11.550	49.704	1.00	17.21
ATOM	1004	O	VAL	131	-7.921	12.274	49.059	1.00	17.48
ATOM	1005	N	PRO	132	-6.768	11.858	50.947	1.00	17.96
ATOM	1006	CD	PRO	132	-6.078	10.981	51.909	1.00	16.97
ATOM	1007	CA	PRO	132	-7.195	13.109	51.580	1.00	16.82
ATOM	1008	CB	PRO	132	-6.775	12.929	53.043	1.00	17.66
ATOM	1009	CG	PRO	132	-5.667	11.944	52.979	1.00	22.79
ATOM	1010	C	PRO	132	-6.495	14.270	50.880	1.00	16.36
ATOM	1011	O	PRO	132	-5.335	14.159	50.465	1.00	14.89
ATOM	1012	N	VAL	133	-7.207	15.381	50.745	1.00	15.39
ATOM	1013	CA	VAL	133	-6.666	16.534	50.046	1.00	14.12
ATOM	1014	CB	VAL	133	-7.488	16.816	48.772	1.00	14.52
ATOM	1015	CG1	VAL	133	-6.921	18.016	48.037	1.00	12.24
ATOM	1016	CG2	VAL	133	-7.495	15.576	47.874	1.00	13.02
ATOM	1017	C	VAL	133	-6.621	17.821	50.855	1.00	14.73
ATOM	1018	O	VAL	133	-7.526	18.116	51.632	1.00	14.95
ATOM	1019	N	CYS	134	-5.546	18.571	50.650	1.00	15.49
ATOM	1020	CA	CYS	134	-5.355	19.868	51.273	1.00	14.56
ATOM	1021	CB	CYS	134	-4.001	19.946	51.985	1.00	14.83
ATOM	1022	SG	CYS	134	-3.649	21.586	52.681	1.00	17.18
ATOM	1023	C	CYS	134	-5.388	20.866	50.121	1.00	16.54
ATOM	1024	O	CYS	134	-4.642	20.734	49.143	1.00	16.64
ATOM	1025	N	GLY	135	-6.276	21.851	50.215	1.00	16.38
ATOM	1026	CA	GLY	135	-6.371	22.864	49.176	1.00	16.44
ATOM	1027	C	GLY	135	-5.297	23.919	49.363	1.00	18.40
ATOM	1028	O	GLY	135	-4.615	23.932	50.387	1.00	17.99
ATOM	1029	N	HIS	136	-5.150	24.806	48.382	1.00	18.50

ATOM	1030	CA	HIS	136	-4.147	25.868	48.435	1.00	18.97
ATOM	1031	C	HIS	136	-4.624	27.055	47.603	1.00	21.58
ATOM	1032	O	HIS	136	-4.727	26.965	46.380	1.00	21.19
ATOM	1033	CB	HIS	136	-2.810	25.332	47.899	1.00	19.18
ATOM	1034	CG	HIS	136	-1.638	26.240	48.126	1.00	19.85
ATOM	1035	ND1	HIS	136	-0.349	25.774	48.029	1.00	21.61
ATOM	1036	CE1	HIS	136	0.428	26.819	48.243	1.00	22.89
ATOM	1037	CD2	HIS	136	-1.614	27.568	48.403	1.00	19.60
ATOM	1038	NE2	HIS	136	-0.291	27.929	48.474	1.00	20.06
ATOM	1039	N	LEU	137	-4.925	28.162	48.278	1.00	23.56
ATOM	1040	CA	LEU	137	-5.399	29.374	47.617	1.00	24.34
ATOM	1041	CB	LEU	137	-6.850	29.655	48.019	1.00	25.33
ATOM	1042	CG	LEU	137	-7.884	28.574	47.685	1.00	24.22
ATOM	1043	CD1	LEU	137	-9.203	28.871	48.386	1.00	24.72
ATOM	1044	CD2	LEU	137	-8.072	28.510	46.181	1.00	24.79
ATOM	1045	C	LEU	137	-4.528	30.578	47.979	1.00	26.25
ATOM	1046	O	LEU	137	-3.798	30.552	48.969	1.00	25.52
ATOM	1047	N	GLY	138	-4.617	31.630	47.169	1.00	28.18
ATOM	1048	CA	GLY	138	-3.837	32.827	47.411	1.00	30.33
ATOM	1049	C	GLY	138	-2.702	32.926	46.414	1.00	32.93
ATOM	1050	O	GLY	138	-2.919	32.829	45.208	1.00	33.34
ATOM	1051	N	LEU	139	-1.489	33.109	46.916	1.00	34.19
ATOM	1052	CA	LEU	139	-0.320	33.212	46.058	1.00	36.17
ATOM	1053	CB	LEU	139	0.784	33.982	46.787	1.00	37.11
ATOM	1054	CG	LEU	139	1.968	34.522	45.977	1.00	39.03
ATOM	1055	CD1	LEU	139	2.838	35.383	46.884	1.00	40.33
ATOM	1056	CD2	LEU	139	2.780	33.385	45.383	1.00	37.65
ATOM	1057	C	LEU	139	0.157	31.803	45.698	1.00	37.33
ATOM	1058	O	LEU	139	0.914	31.184	46.442	1.00	37.46
ATOM	1059	N	THR	140	-0.304	31.303	44.555	1.00	37.52
ATOM	1060	CA	THR	140	0.064	29.974	44.081	1.00	38.56
ATOM	1061	CB	THR	140	-1.057	29.367	43.214	1.00	39.12
ATOM	1062	OG1	THR	140	-1.375	30.266	42.145	1.00	38.58
ATOM	1063	CG2	THR	140	-2.302	29.118	44.053	1.00	38.94
ATOM	1064	C	THR	140	1.343	30.044	43.249	1.00	38.97
ATOM	1065	O	THR	140	1.314	30.444	42.085	1.00	39.39
ATOM	1066	N	PRO	141	2.483	29.646	43.837	1.00	38.90
ATOM	1067	CD	PRO	141	2.619	29.077	45.190	1.00	39.41
ATOM	1068	CA	PRO	141	3.778	29.669	43.147	1.00	37.89
ATOM	1069	CB	PRO	141	4.742	29.115	44.197	1.00	38.82
ATOM	1070	CG	PRO	141	3.864	28.250	45.055	1.00	40.43
ATOM	1071	C	PRO	141	3.831	28.899	41.831	1.00	37.49
ATOM	1072	O	PRO	141	4.622	29.233	40.947	1.00	34.97
ATOM	1073	N	GLN	142	2.997	27.872	41.700	1.00	35.93
ATOM	1074	CA	GLN	142	2.975	27.084	40.470	1.00	37.63
ATOM	1075	CB	GLN	142	2.072	25.855	40.635	1.00	35.67
ATOM	1076	CG	GLN	142	2.807	24.600	41.091	1.00	34.13
ATOM	1077	CD	GLN	142	1.860	23.471	41.458	1.00	33.64
ATOM	1078	OE1	GLN	142	0.906	23.186	40.737	1.00	31.98
ATOM	1079	NE2	GLN	142	2.127	22.817	42.583	1.00	33.66
ATOM	1080	C	GLN	142	2.508	27.920	39.282	1.00	38.52
ATOM	1081	O	GLN	142	2.859	27.635	38.134	1.00	38.49
ATOM	1082	N	SER	143	1.718	28.953	39.562	1.00	39.73
ATOM	1083	CA	SER	143	1.210	29.834	38.513	1.00	40.92
ATOM	1084	CB	SER	143	-0.279	30.123	38.732	1.00	40.43
ATOM	1085	OG	SER	143	-1.059	28.946	38.606	1.00	41.04
ATOM	1086	C	SER	143	1.982	31.149	38.484	1.00	41.64
ATOM	1087	O	SER	143	1.448	32.178	38.076	1.00	42.46
ATOM	1088	N	VAL	144	3.238	31.110	38.916	1.00	42.62
ATOM	1089	CA	VAL	144	4.075	32.306	38.935	1.00	43.78
ATOM	1090	CB	VAL	144	5.483	31.995	39.492	1.00	43.30
ATOM	1091	CG1	VAL	144	6.194	31.001	38.588	1.00	43.74
ATOM	1092	CG2	VAL	144	6.291	33.278	39.616	1.00	44.06
ATOM	1093	C	VAL	144	4.219	32.918	37.541	1.00	44.58
ATOM	1094	O	VAL	144	4.423	34.123	37.405	1.00	44.39
ATOM	1095	N	ASN	145	4.111	32.082	36.512	1.00	45.34
ATOM	1096	CA	ASN	145	4.231	32.540	35.130	1.00	47.01
ATOM	1097	CB	ASN	145	4.606	31.368	34.214	1.00	47.34
ATOM	1098	CG	ASN	145	5.992	30.821	34.505	1.00	48.01
ATOM	1099	OD1	ASN	145	7.000	31.488	34.264	1.00	47.54
ATOM	1100	ND2	ASN	145	6.049	29.602	35.031	1.00	48.81
ATOM	1101	C	ASN	145	2.938	33.179	34.640	1.00	47.35
ATOM	1102	O	ASN	145	2.905	33.813	33.585	1.00	47.69
ATOM	1103	N	ILE	146	1.872	33.005	35.410	1.00	48.31
ATOM	1104	CA	ILE	146	0.578	33.569	35.055	1.00	49.69
ATOM	1105	CB	ILE	146	-0.574	32.693	35.589	1.00	49.13
ATOM	1106	CG2	ILE	146	-1.912	33.335	35.263	1.00	48.60

ATOM	1107	CG1	ILE	146	-0.485	31.290	34.981	1.00	48.60
ATOM	1108	CD1	ILE	146	-0.628	31.262	33.472	1.00	48.16
ATOM	1109	C	ILE	146	0.426	34.976	35.623	1.00	51.32
ATOM	1110	O	ILE	146	-0.045	35.880	34.934	1.00	51.26
ATOM	1111	N	PHE	147	0.831	35.154	36.879	1.00	52.78
ATOM	1112	CA	PHE	147	0.738	36.448	37.553	1.00	54.17
ATOM	1113	CB	PHE	147	0.713	36.254	39.072	1.00	55.12
ATOM	1114	CG	PHE	147	-0.198	35.152	39.528	1.00	56.36
ATOM	1115	CD1	PHE	147	-1.553	35.177	39.218	1.00	57.26
ATOM	1116	CD2	PHE	147	0.303	34.084	40.266	1.00	57.27
ATOM	1117	CE1	PHE	147	-2.400	34.151	39.634	1.00	57.90
ATOM	1118	CE2	PHE	147	-0.533	33.052	40.688	1.00	57.81
ATOM	1119	CZ	PHE	147	-1.887	33.086	40.371	1.00	58.12
ATOM	1120	C	PHE	147	1.914	37.350	37.188	1.00	54.46
ATOM	1121	O	PHE	147	1.937	38.528	37.544	1.00	54.14
ATOM	1122	N	GLY	148	2.890	36.787	36.483	1.00	55.28
ATOM	1123	CA	GLY	148	4.056	37.555	36.090	1.00	56.16
ATOM	1124	C	GLY	148	4.972	37.817	37.268	1.00	56.63
ATOM	1125	O	GLY	148	5.699	38.809	37.294	1.00	56.49
ATOM	1126	N	GLY	149	4.933	36.920	38.249	1.00	57.50
ATOM	1127	CA	GLY	149	5.761	37.068	39.431	1.00	58.67
ATOM	1128	C	GLY	149	4.997	36.690	40.685	1.00	59.94
ATOM	1129	O	GLY	149	3.828	36.305	40.613	1.00	59.46
ATOM	1130	N	TYR	150	5.653	36.797	41.837	1.00	61.00
ATOM	1131	CA	TYR	150	5.018	36.467	43.108	1.00	62.09
ATOM	1132	CB	TYR	150	6.029	35.830	44.068	1.00	62.64
ATOM	1133	CG	TYR	150	6.779	34.653	43.484	1.00	63.79
ATOM	1134	CD1	TYR	150	7.910	34.846	42.688	1.00	64.15
ATOM	1135	CE1	TYR	150	8.601	33.764	42.142	1.00	64.08
ATOM	1136	CD2	TYR	150	6.355	33.344	43.718	1.00	64.03
ATOM	1137	CE2	TYR	150	7.038	32.256	43.175	1.00	63.87
ATOM	1138	CZ	TYR	150	8.160	32.474	42.389	1.00	64.27
ATOM	1139	OH	TYR	150	8.840	31.407	41.849	1.00	64.43
ATOM	1140	C	TYR	150	4.426	37.721	43.744	1.00	62.40
ATOM	1141	O	TYR	150	5.141	38.523	44.347	1.00	62.18
ATOM	1142	N	LYS	151	3.113	37.883	43.603	1.00	62.64
ATOM	1143	CA	LYS	151	2.414	39.038	44.152	1.00	62.63
ATOM	1144	CB	LYS	151	1.768	39.842	43.020	1.00	63.52
ATOM	1145	CG	LYS	151	2.765	40.359	41.993	1.00	64.61
ATOM	1146	CD	LYS	151	2.085	41.186	40.916	1.00	65.48
ATOM	1147	CE	LYS	151	3.100	41.731	39.921	1.00	66.46
ATOM	1148	NZ	LYS	151	2.464	42.586	38.878	1.00	66.97
ATOM	1149	C	LYS	151	1.351	38.615	45.161	1.00	62.18
ATOM	1150	O	LYS	151	1.022	37.433	45.273	1.00	62.06
ATOM	1151	N	VAL	152	0.815	39.586	45.893	1.00	61.53
ATOM	1152	CA	VAL	152	-0.204	39.309	46.897	1.00	60.97
ATOM	1153	CB	VAL	152	-0.190	40.378	48.010	1.00	60.76
ATOM	1154	CG1	VAL	152	-1.225	40.039	49.073	1.00	60.74
ATOM	1155	CG2	VAL	152	1.195	40.468	48.624	1.00	60.69
ATOM	1156	C	VAL	152	-1.601	39.263	46.293	1.00	60.64
ATOM	1157	O	VAL	152	-1.999	40.166	45.559	1.00	60.43
ATOM	1158	N	GLN	153	-2.341	38.205	46.608	1.00	60.42
ATOM	1159	CA	GLN	153	-3.703	38.042	46.111	1.00	60.14
ATOM	1160	CB	GLN	153	-3.918	36.620	45.581	1.00	60.93
ATOM	1161	CG	GLN	153	-3.467	36.402	44.140	1.00	61.33
ATOM	1162	CD	GLN	153	-1.977	36.593	43.953	1.00	61.41
ATOM	1163	OE1	GLN	153	-1.169	35.901	44.572	1.00	62.43
ATOM	1164	NE2	GLN	153	-1.605	37.531	43.091	1.00	60.96
ATOM	1165	C	GLN	153	-4.715	38.333	47.214	1.00	59.42
ATOM	1166	O	GLN	153	-4.350	38.483	48.379	1.00	59.06
ATOM	1167	N	GLY	154	-5.988	38.410	46.838	1.00	58.76
ATOM	1168	CA	GLY	154	-7.030	38.685	47.808	1.00	58.28
ATOM	1169	C	GLY	154	-7.425	40.149	47.825	1.00	57.80
ATOM	1170	O	GLY	154	-8.548	40.489	48.199	1.00	56.85
ATOM	1171	N	ARG	155	-6.497	41.013	47.421	1.00	58.06
ATOM	1172	CA	ARG	155	-6.732	42.455	47.380	1.00	58.09
ATOM	1173	CB	ARG	155	-5.535	43.174	46.742	1.00	59.37
ATOM	1174	CG	ARG	155	-4.204	42.996	47.470	1.00	60.93
ATOM	1175	CD	ARG	155	-4.242	43.586	48.873	1.00	62.00
ATOM	1176	NE	ARG	155	-2.977	43.409	49.587	1.00	62.99
ATOM	1177	CZ	ARG	155	-1.826	43.969	49.227	1.00	63.25
ATOM	1178	NH1	ARG	155	-1.773	44.750	48.157	1.00	63.93
ATOM	1179	NH2	ARG	155	-0.727	43.753	49.938	1.00	63.47
ATOM	1180	C	ARG	155	-7.990	42.771	46.575	1.00	57.05
ATOM	1181	O	ARG	155	-8.123	42.355	45.425	1.00	57.28
ATOM	1182	N	GLY	156	-8.908	43.513	47.184	1.00	55.32
ATOM	1183	CA	GLY	156	-10.136	43.862	46.498	1.00	53.27



ATOM	1184	C	GLY	156	-11.306	43.028	46.976	1.00	52.09
ATOM	1185	O	GLY	156	-11.123	41.930	47.501	1.00	51.92
ATOM	1186	N	ASP	157	-12.511	43.553	46.790	1.00	50.40
ATOM	1187	CA	ASP	157	-13.731	42.872	47.208	1.00	49.29
ATOM	1188	CB	ASP	157	-14.914	43.832	47.090	1.00	50.74
ATOM	1189	CG	ASP	157	-14.693	45.121	47.854	1.00	51.46
ATOM	1190	OD1	ASP	157	-14.893	45.122	49.086	1.00	50.41
ATOM	1191	OD2	ASP	157	-14.304	46.126	47.216	1.00	53.02
ATOM	1192	C	ASP	157	-13.991	41.634	46.358	1.00	48.08
ATOM	1193	O	ASP	157	-14.231	40.544	46.881	1.00	46.48
ATOM	1194	N	GLU	158	-13.942	41.813	45.043	1.00	46.08
ATOM	1195	CA	GLU	158	-14.178	40.718	44.116	1.00	45.63
ATOM	1196	CB	GLU	158	-14.092	41.225	42.675	1.00	48.09
ATOM	1197	CG	GLU	158	-14.387	40.169	41.626	1.00	50.76
ATOM	1198	CD	GLU	158	-14.503	40.755	40.233	1.00	53.13
ATOM	1199	OE1	GLU	158	-15.430	41.564	40.002	1.00	55.10
ATOM	1200	OE2	GLU	158	-13.670	40.411	39.367	1.00	54.38
ATOM	1201	C	GLU	158	-13.187	39.578	44.329	1.00	43.56
ATOM	1202	O	GLU	158	-13.584	38.429	44.529	1.00	42.93
ATOM	1203	N	ALA	159	-11.898	39.899	44.287	1.00	41.57
ATOM	1204	CA	ALA	159	-10.859	38.893	44.482	1.00	39.78
ATOM	1205	CB	ALA	159	-9.482	39.547	44.444	1.00	39.93
ATOM	1206	C	ALA	159	-11.065	38.177	45.814	1.00	38.91
ATOM	1207	O	ALA	159	-10.917	36.958	45.904	1.00	37.78
ATOM	1208	N	GLY	160	-11.419	38.944	46.840	1.00	36.56
ATOM	1209	CA	GLY	160	-11.642	38.371	48.152	1.00	35.21
ATOM	1210	C	GLY	160	-12.818	37.416	48.194	1.00	35.10
ATOM	1211	O	GLY	160	-12.718	36.330	48.768	1.00	34.10
ATOM	1212	N	ASP	161	-13.935	37.813	47.591	1.00	33.83
ATOM	1213	CA	ASP	161	-15.126	36.971	47.575	1.00	33.55
ATOM	1214	CB	ASP	161	-16.335	37.747	47.038	1.00	34.86
ATOM	1215	CG	ASP	161	-16.651	38.986	47.861	1.00	35.97
ATOM	1216	OD1	ASP	161	-16.702	38.890	49.109	1.00	34.80
ATOM	1217	OD2	ASP	161	-16.862	40.056	47.255	1.00	37.49
ATOM	1218	C	ASP	161	-14.897	35.727	46.718	1.00	32.66
ATOM	1219	O	ASP	161	-15.553	34.704	46.910	1.00	30.79
ATOM	1220	N	GLN	162	-13.967	35.822	45.773	1.00	33.43
ATOM	1221	CA	GLN	162	-13.657	34.696	44.901	1.00	34.32
ATOM	1222	CB	GLN	162	-12.810	35.160	43.712	1.00	35.93
ATOM	1223	CG	GLN	162	-12.549	34.069	42.680	1.00	40.84
ATOM	1224	CD	GLN	162	-13.827	33.377	42.235	1.00	43.13
ATOM	1225	OE1	GLN	162	-14.770	34.023	41.774	1.00	45.74
ATOM	1226	NE2	GLN	162	-13.866	32.056	42.374	1.00	44.65
ATOM	1227	C	GLN	162	-12.915	33.613	45.683	1.00	32.85
ATOM	1228	O	GLN	162	-13.236	32.429	45.575	1.00	32.77
ATOM	1229	N	LEU	163	-11.928	34.022	46.474	1.00	31.71
ATOM	1230	CA	LEU	163	-11.159	33.074	47.275	1.00	31.82
ATOM	1231	CB	LEU	163	-10.025	33.792	48.017	1.00	33.87
ATOM	1232	CG	LEU	163	-8.879	34.358	47.173	1.00	35.14
ATOM	1233	CD1	LEU	163	-7.918	35.131	48.064	1.00	36.34
ATOM	1234	CD2	LEU	163	-8.146	33.222	46.472	1.00	36.72
ATOM	1235	C	LEU	163	-12.059	32.363	48.279	1.00	31.54
ATOM	1236	O	LEU	163	-11.968	31.150	48.456	1.00	30.72
ATOM	1237	N	LEU	164	-12.932	33.124	48.934	1.00	30.37
ATOM	1238	CA	LEU	164	-13.848	32.556	49.915	1.00	29.45
ATOM	1239	CB	LEU	164	-14.702	33.669	50.530	1.00	31.08
ATOM	1240	CG	LEU	164	-15.296	33.451	51.925	1.00	31.21
ATOM	1241	CD1	LEU	164	-16.045	34.715	52.346	1.00	35.31
ATOM	1242	CD2	LEU	164	-16.218	32.261	51.937	1.00	32.29
ATOM	1243	C	LEU	164	-14.737	31.540	49.203	1.00	28.86
ATOM	1244	O	LEU	164	-15.058	30.480	49.744	1.00	28.39
ATOM	1245	N	SER	165	-15.126	31.876	47.978	1.00	27.45
ATOM	1246	CA	SER	165	-15.973	31.004	47.173	1.00	28.46
ATOM	1247	CB	SER	165	-16.356	31.709	45.867	1.00	26.87
ATOM	1248	OG	SER	165	-17.280	30.932	45.133	1.00	31.92
ATOM	1249	C	SER	165	-15.243	29.699	46.856	1.00	26.43
ATOM	1250	O	SER	165	-15.796	28.611	47.010	1.00	27.06
ATOM	1251	N	ASP	166	-13.997	29.820	46.412	1.00	26.79
ATOM	1252	CA	ASP	166	-13.194	28.648	46.078	1.00	25.84
ATOM	1253	CB	ASP	166	-11.881	29.057	45.407	1.00	27.39
ATOM	1254	CG	ASP	166	-12.086	29.645	44.028	1.00	28.71
ATOM	1255	OD1	ASP	166	-12.913	29.099	43.262	1.00	31.41
ATOM	1256	OD2	ASP	166	-11.407	30.644	43.696	1.00	28.72
ATOM	1257	C	ASP	166	-12.886	27.840	47.331	1.00	25.65
ATOM	1258	O	ASP	166	-12.769	26.615	47.275	1.00	25.23
ATOM	1259	N	ALA	167	-12.750	28.534	48.459	1.00	23.48
ATOM	1260	CA	ALA	167	-12.454	27.893	49.733	1.00	22.78

ATOM	1261	CB	ALA	167	-12.184	28.956	50.806	1.00	23.00
ATOM	1262	C	ALA	167	-13.599	26.991	50.169	1.00	21.48
ATOM	1263	O	ALA	167	-13.387	25.833	50.532	1.00	19.60
ATOM	1264	N	LEU	168	-14.817	27.523	50.150	1.00	21.01
ATOM	1265	CA	LEU	168	-15.983	26.734	50.534	1.00	20.93
ATOM	1266	CB	LEU	168	-17.228	27.622	50.596	1.00	21.15
ATOM	1267	CG	LEU	168	-17.387	28.514	51.831	1.00	19.76
ATOM	1268	CD1	LEU	168	-18.297	29.693	51.501	1.00	21.84
ATOM	1269	CD2	LEU	168	-17.967	27.699	52.978	1.00	20.27
ATOM	1270	C	LEU	168	-16.199	25.630	49.509	1.00	20.35
ATOM	1271	O	LEU	168	-16.610	24.527	49.855	1.00	21.26
ATOM	1272	N	ALA	169	-15.925	25.943	48.248	1.00	21.84
ATOM	1273	CA	ALA	169	-16.088	24.984	47.161	1.00	22.58
ATOM	1274	CB	ALA	169	-15.774	25.648	45.829	1.00	19.71
ATOM	1275	C	ALA	169	-15.198	23.764	47.368	1.00	23.26
ATOM	1276	O	ALA	169	-15.638	22.626	47.192	1.00	23.84
ATOM	1277	N	LEU	170	-13.944	24.004	47.737	1.00	22.11
ATOM	1278	CA	LEU	170	-13.005	22.915	47.974	1.00	21.77
ATOM	1279	CB	LEU	170	-11.585	23.473	48.169	1.00	19.66
ATOM	1280	CG	LEU	170	-10.934	24.127	46.939	1.00	17.91
ATOM	1281	CD1	LEU	170	-9.666	24.896	47.340	1.00	19.18
ATOM	1282	CD2	LEU	170	-10.595	23.043	45.910	1.00	18.15
ATOM	1283	C	LEU	170	-13.447	22.114	49.198	1.00	20.95
ATOM	1284	O	LEU	170	-13.408	20.888	49.185	1.00	20.34
ATOM	1285	N	GLU	171	-13.883	22.803	50.253	1.00	21.68
ATOM	1286	CA	GLU	171	-14.332	22.116	51.461	1.00	21.25
ATOM	1287	CB	GLU	171	-14.746	23.129	52.536	1.00	22.53
ATOM	1288	CG	GLU	171	-15.385	22.502	53.775	1.00	25.91
ATOM	1289	CD	GLU	171	-15.745	23.536	54.834	1.00	27.19
ATOM	1290	OE1	GLU	171	-16.404	24.538	54.477	1.00	27.15
ATOM	1291	OE2	GLU	171	-15.377	23.342	56.016	1.00	27.26
ATOM	1292	C	GLU	171	-15.504	21.195	51.149	1.00	21.24
ATOM	1293	O	GLU	171	-15.538	20.044	51.592	1.00	21.38
ATOM	1294	N	ALA	172	-16.460	21.701	50.374	1.00	21.12
ATOM	1295	CA	ALA	172	-17.637	20.919	50.013	1.00	21.23
ATOM	1296	CB	ALA	172	-18.651	21.807	49.299	1.00	21.68
ATOM	1297	C	ALA	172	-17.272	19.724	49.134	1.00	20.21
ATOM	1298	O	ALA	172	-17.953	18.695	49.147	1.00	19.47
ATOM	1299	N	ALA	173	-16.192	19.866	48.374	1.00	22.48
ATOM	1300	CA	ALA	173	-15.725	18.801	47.491	1.00	19.03
ATOM	1301	CB	ALA	173	-14.767	19.379	46.444	1.00	20.74
ATOM	1302	C	ALA	173	-15.034	17.690	48.286	1.00	21.09
ATOM	1303	O	ALA	173	-14.845	16.575	47.792	1.00	20.88
ATOM	1304	N	GLY	174	-14.651	18.000	49.520	1.00	20.56
ATOM	1305	CA	GLY	174	-14.011	16.998	50.352	1.00	20.44
ATOM	1306	C	GLY	174	-12.664	17.365	50.949	1.00	19.70
ATOM	1307	O	GLY	174	-12.077	16.559	51.669	1.00	19.40
ATOM	1308	N	ALA	175	-12.157	18.559	50.658	1.00	20.44
ATOM	1309	CA	ALA	175	-10.871	18.964	51.218	1.00	19.55
ATOM	1310	CB	ALA	175	-10.464	20.316	50.677	1.00	20.28
ATOM	1311	C	ALA	175	-10.972	19.006	52.747	1.00	21.76
ATOM	1312	O	ALA	175	-11.891	19.610	53.297	1.00	20.48
ATOM	1313	N	GLN	176	-10.037	18.347	53.431	1.00	20.03
ATOM	1314	CA	GLN	176	-10.041	18.310	54.892	1.00	20.58
ATOM	1315	CB	GLN	176	-9.654	16.916	55.392	1.00	20.99
ATOM	1316	CG	GLN	176	-10.582	15.828	54.889	1.00	23.71
ATOM	1317	CD	GLN	176	-10.327	14.487	55.535	1.00	25.55
ATOM	1318	OE1	GLN	176	-10.614	14.291	56.713	1.00	29.79
ATOM	1319	NE2	GLN	176	-9.785	13.554	54.766	1.00	27.44
ATOM	1320	C	GLN	176	-9.096	19.349	55.487	1.00	20.58
ATOM	1321	O	GLN	176	-9.021	19.515	56.705	1.00	19.49
ATOM	1322	N	LEU	177	-8.376	20.037	54.610	1.00	20.99
ATOM	1323	CA	LEU	177	-7.440	21.074	55.001	1.00	21.65
ATOM	1324	CB	LEU	177	-6.063	20.478	55.315	1.00	22.64
ATOM	1325	CG	LEU	177	-5.821	20.041	56.763	1.00	25.50
ATOM	1326	CD1	LEU	177	-4.483	19.321	56.874	1.00	24.79
ATOM	1327	CD2	LEU	177	-5.838	21.272	57.670	1.00	24.33
ATOM	1328	C	LEU	177	-7.308	22.097	53.885	1.00	22.00
ATOM	1329	O	LEU	177	-7.529	21.792	52.709	1.00	20.39
ATOM	1330	N	LEU	178	-6.948	23.317	54.261	1.00	19.35
ATOM	1331	CA	LEU	178	-6.779	24.386	53.295	1.00	20.42
ATOM	1332	CB	LEU	178	-8.063	25.211	53.180	1.00	19.08
ATOM	1333	CG	LEU	178	-7.947	26.457	52.297	1.00	21.83
ATOM	1334	CD1	LEU	178	-7.793	26.056	50.832	1.00	22.51
ATOM	1335	CD2	LEU	178	-9.187	27.327	52.472	1.00	21.62
ATOM	1336	C	LEU	178	-5.630	25.304	53.681	1.00	21.17
ATOM	1337	O	LEU	178	-5.499	25.703	54.838	1.00	21.61

ATOM	1338	N	VAL	179	-4.803	25.630	52.696	1.00	20.87
ATOM	1339	CA	VAL	179	-3.672	26.518	52.893	1.00	21.64
ATOM	1340	CB	VAL	179	-2.360	25.910	52.320	1.00	21.83
ATOM	1341	CG1	VAL	179	-1.280	26.985	52.238	1.00	21.50
ATOM	1342	CG2	VAL	179	-1.876	24.760	53.204	1.00	16.70
ATOM	1343	C	VAL	179	-3.945	27.843	52.182	1.00	23.89
ATOM	1344	O	VAL	179	-4.370	27.865	51.020	1.00	22.84
ATOM	1345	N	LEU	180	-3.718	28.941	52.900	1.00	25.31
ATOM	1346	CA	LEU	180	-3.898	30.291	52.363	1.00	27.62
ATOM	1347	CB	LEU	180	-4.873	31.098	53.223	1.00	29.45
ATOM	1348	CG	LEU	180	-6.349	30.724	53.135	1.00	32.82
ATOM	1349	CD1	LEU	180	-7.138	31.542	54.147	1.00	31.62
ATOM	1350	CD2	LEU	180	-6.861	30.980	51.720	1.00	30.67
ATOM	1351	C	LEU	180	-2.537	30.962	52.398	1.00	27.37
ATOM	1352	O	LEU	180	-1.943	31.094	53.464	1.00	26.56
ATOM	1353	N	GLU	181	-2.052	31.383	51.235	1.00	28.04
ATOM	1354	CA	GLU	181	-0.743	32.017	51.131	1.00	30.09
ATOM	1355	CB	GLU	181	0.131	31.261	50.123	1.00	30.40
ATOM	1356	CG	GLU	181	1.579	31.735	50.082	1.00	33.41
ATOM	1357	CD	GLU	181	2.419	30.986	49.064	1.00	35.66
ATOM	1358	OE1	GLU	181	2.297	29.747	48.986	1.00	35.41
ATOM	1359	OE2	GLU	181	3.213	31.632	48.349	1.00	38.36
ATOM	1360	C	GLU	181	-0.821	33.477	50.709	1.00	30.13
ATOM	1361	O	GLU	181	-1.465	33.809	49.714	1.00	31.04
ATOM	1362	N	CYS	182	-0.154	34.337	51.474	1.00	30.42
ATOM	1363	CA	CYS	182	-0.097	35.764	51.195	1.00	31.63
ATOM	1364	CB	CYS	182	0.946	36.026	50.111	1.00	31.93
ATOM	1365	SG	CYS	182	2.594	35.443	50.588	1.00	36.42
ATOM	1366	C	CYS	182	-1.430	36.382	50.803	1.00	31.83
ATOM	1367	O	CYS	182	-1.683	36.677	49.632	1.00	30.94
ATOM	1368	N	VAL	183	-2.273	36.580	51.807	1.00	31.93
ATOM	1369	CA	VAL	183	-3.587	37.165	51.614	1.00	34.24
ATOM	1370	CB	VAL	183	-4.674	36.054	51.575	1.00	33.56
ATOM	1371	CG1	VAL	183	-4.945	35.517	52.974	1.00	34.62
ATOM	1372	CG2	VAL	183	-5.936	36.580	50.944	1.00	35.73
ATOM	1373	C	VAL	183	-3.846	38.118	52.786	1.00	35.32
ATOM	1374	O	VAL	183	-3.400	37.870	53.909	1.00	36.95
ATOM	1375	N	PRO	184	-4.556	39.232	52.538	1.00	35.89
ATOM	1376	CD	PRO	184	-5.239	39.654	51.302	1.00	35.39
ATOM	1377	CA	PRO	184	-4.827	40.170	53.631	1.00	34.72
ATOM	1378	CB	PRO	184	-5.751	41.203	52.980	1.00	35.50
ATOM	1379	CG	PRO	184	-6.394	40.449	51.849	1.00	36.10
ATOM	1380	C	PRO	184	-5.458	39.476	54.834	1.00	33.29
ATOM	1381	O	PRO	184	-6.384	38.679	54.688	1.00	33.08
ATOM	1382	N	VAL	185	-4.945	39.784	56.022	1.00	33.66
ATOM	1383	CA	VAL	185	-5.440	39.184	57.261	1.00	33.09
ATOM	1384	CB	VAL	185	-4.917	39.936	58.504	1.00	33.17
ATOM	1385	CG1	VAL	185	-5.309	39.182	59.763	1.00	33.65
ATOM	1386	CG2	VAL	185	-3.415	40.099	58.430	1.00	31.75
ATOM	1387	C	VAL	185	-6.960	39.165	57.338	1.00	33.78
ATOM	1388	O	VAL	185	-7.559	38.166	57.739	1.00	33.51
ATOM	1389	N	GLU	186	-7.577	40.282	56.968	1.00	35.07
ATOM	1390	CA	GLU	186	-9.030	40.407	56.991	1.00	36.33
ATOM	1391	CB	GLU	186	-9.445	41.766	56.417	1.00	37.40
ATOM	1392	CG	GLU	186	-8.658	42.181	55.181	1.00	42.15
ATOM	1393	CD	GLU	186	-7.468	43.080	55.508	1.00	44.18
ATOM	1394	OE1	GLU	186	-6.790	42.840	56.533	1.00	43.77
ATOM	1395	OE2	GLU	186	-7.205	44.022	54.726	1.00	45.83
ATOM	1396	C	GLU	186	-9.712	39.289	56.208	1.00	35.05
ATOM	1397	O	GLU	186	-10.704	38.714	56.659	1.00	35.07
ATOM	1398	N	LEU	187	-9.178	38.986	55.031	1.00	34.38
ATOM	1399	CA	LEU	187	-9.743	37.941	54.188	1.00	33.21
ATOM	1400	CB	LEU	187	-9.079	37.971	52.809	1.00	35.04
ATOM	1401	CG	LEU	187	-9.927	37.542	51.607	1.00	36.74
ATOM	1402	CD1	LEU	187	-9.075	37.607	50.351	1.00	37.59
ATOM	1403	CD2	LEU	187	-10.475	36.146	51.807	1.00	36.68
ATOM	1404	C	LEU	187	-9.533	36.577	54.836	1.00	32.03
ATOM	1405	O	LEU	187	-10.431	35.735	54.839	1.00	30.51
ATOM	1406	N	ALA	188	-8.340	36.364	55.386	1.00	31.07
ATOM	1407	CA	ALA	188	-8.012	35.102	56.039	1.00	31.01
ATOM	1408	CB	ALA	188	-6.576	35.138	56.554	1.00	30.06
ATOM	1409	C	ALA	188	-8.979	34.822	57.182	1.00	30.77
ATOM	1410	O	ALA	188	-9.345	33.673	57.424	1.00	30.09
ATOM	1411	N	LYS	189	-9.396	35.880	57.876	1.00	32.19
ATOM	1412	CA	LYS	189	-10.332	35.755	58.992	1.00	33.17
ATOM	1413	CB	LYS	189	-10.573	37.119	59.653	1.00	35.50
ATOM	1414	CG	LYS	189	-9.321	37.829	60.131	1.00	41.20

ATOM	1415	CD	LYS	189	-9.644	39.151	60.826	1.00	44.52
ATOM	1416	CE	LYS	189	-8.375	39.807	61.361	1.00	46.20
ATOM	1417	NZ	LYS	189	-8.623	41.120	62.025	1.00	49.12
ATOM	1418	C	LYS	189	-11.672	35.201	58.520	1.00	32.13
ATOM	1419	O	LYS	189	-12.226	34.284	59.130	1.00	32.62
ATOM	1420	N	ARG	190	-12.193	35.772	57.437	1.00	32.40
ATOM	1421	CA	ARG	190	-13.478	35.343	56.887	1.00	33.08
ATOM	1422	CB	ARG	190	-13.839	36.172	55.650	1.00	34.06
ATOM	1423	CG	ARG	190	-14.021	37.652	55.906	1.00	37.30
ATOM	1424	CD	ARG	190	-14.906	38.274	54.834	1.00	38.35
ATOM	1425	NE	ARG	190	-14.261	38.346	53.528	1.00	38.64
ATOM	1426	CZ	ARG	190	-14.920	38.343	52.373	1.00	38.37
ATOM	1427	NH1	ARG	190	-16.242	38.262	52.364	1.00	37.74
ATOM	1428	NH2	ARG	190	-14.265	38.435	51.223	1.00	38.25
ATOM	1429	C	ARG	190	-13.480	33.869	56.508	1.00	31.06
ATOM	1430	O	ARG	190	-14.363	33.115	56.913	1.00	31.92
ATOM	1431	N	ILE	191	-12.488	33.466	55.723	1.00	31.60
ATOM	1432	CA	ILE	191	-12.391	32.081	55.283	1.00	30.50
ATOM	1433	CB	ILE	191	-11.197	31.887	54.322	1.00	32.14
ATOM	1434	CG2	ILE	191	-11.045	30.412	53.965	1.00	32.40
ATOM	1435	CG1	ILE	191	-11.415	32.724	53.057	1.00	32.62
ATOM	1436	CD1	ILE	191	-10.227	32.763	52.116	1.00	33.46
ATOM	1437	C	ILE	191	-12.245	31.133	56.466	1.00	29.60
ATOM	1438	O	ILE	191	-12.885	30.084	56.509	1.00	29.78
ATOM	1439	N	THR	192	-11.410	31.509	57.428	1.00	28.46
ATOM	1440	CA	THR	192	-11.190	30.673	58.597	1.00	28.93
ATOM	1441	CB	THR	192	-10.100	31.269	59.514	1.00	28.24
ATOM	1442	OG1	THR	192	-8.870	31.379	58.788	1.00	28.74
ATOM	1443	CG2	THR	192	-9.878	30.380	60.723	1.00	27.20
ATOM	1444	C	THR	192	-12.472	30.478	59.402	1.00	29.99
ATOM	1445	O	THR	192	-12.747	29.378	59.885	1.00	28.00
ATOM	1446	N	GLU	193	-13.257	31.542	59.548	1.00	31.93
ATOM	1447	CA	GLU	193	-14.507	31.451	60.295	1.00	33.82
ATOM	1448	CB	GLU	193	-15.021	32.845	60.666	1.00	36.65
ATOM	1449	CG	GLU	193	-14.225	33.543	61.751	1.00	41.54
ATOM	1450	CD	GLU	193	-14.789	34.912	62.097	1.00	44.86
ATOM	1451	OE1	GLU	193	-14.740	35.816	61.233	1.00	45.51
ATOM	1452	OE2	GLU	193	-15.284	35.083	63.236	1.00	47.21
ATOM	1453	C	GLU	193	-15.567	30.725	59.480	1.00	32.10
ATOM	1454	O	GLU	193	-16.372	29.974	60.023	1.00	33.17
ATOM	1455	N	ALA	194	-15.554	30.947	58.172	1.00	31.90
ATOM	1456	CA	ALA	194	-16.523	30.327	57.278	1.00	30.74
ATOM	1457	CB	ALA	194	-16.446	30.980	55.910	1.00	30.76
ATOM	1458	C	ALA	194	-16.352	28.818	57.140	1.00	30.69
ATOM	1459	O	ALA	194	-17.338	28.083	57.051	1.00	30.09
ATOM	1460	N	LEU	195	-15.106	28.353	57.123	1.00	29.16
ATOM	1461	CA	LEU	195	-14.848	26.928	56.967	1.00	27.62
ATOM	1462	CB	LEU	195	-13.555	26.704	56.173	1.00	28.66
ATOM	1463	CG	LEU	195	-13.422	27.386	54.805	1.00	29.78
ATOM	1464	CD1	LEU	195	-12.296	26.713	54.020	1.00	28.71
ATOM	1465	CD2	LEU	195	-14.723	27.288	54.034	1.00	30.26
ATOM	1466	C	LEU	195	-14.774	26.156	58.279	1.00	26.86
ATOM	1467	O	LEU	195	-14.280	26.658	59.290	1.00	26.51
ATOM	1468	N	ALA	196	-15.289	24.931	58.247	1.00	24.22
ATOM	1469	CA	ALA	196	-15.282	24.046	59.403	1.00	24.93
ATOM	1470	CB	ALA	196	-16.392	23.011	59.275	1.00	25.42
ATOM	1471	C	ALA	196	-13.928	23.351	59.464	1.00	25.63
ATOM	1472	O	ALA	196	-13.461	22.973	60.537	1.00	24.87
ATOM	1473	N	ILE	197	-13.307	23.174	58.299	1.00	25.00
ATOM	1474	CA	ILE	197	-12.003	22.527	58.225	1.00	23.95
ATOM	1475	CB	ILE	197	-11.698	22.011	56.800	1.00	22.76
ATOM	1476	CG2	ILE	197	-12.670	20.901	56.426	1.00	21.58
ATOM	1477	CG1	ILE	197	-11.782	23.156	55.796	1.00	22.43
ATOM	1478	CD1	ILE	197	-11.166	22.818	54.447	1.00	24.79
ATOM	1479	C	ILE	197	-10.910	23.505	58.628	1.00	24.38
ATOM	1480	O	ILE	197	-11.011	24.709	58.381	1.00	24.17
ATOM	1481	N	PRO	198	-9.845	23.001	59.260	1.00	24.33
ATOM	1482	CD	PRO	198	-9.578	21.616	59.681	1.00	23.43
ATOM	1483	CA	PRO	198	-8.768	23.903	59.668	1.00	24.80
ATOM	1484	CB	PRO	198	-7.840	22.994	60.482	1.00	24.52
ATOM	1485	CG	PRO	198	-8.104	21.638	59.926	1.00	26.07
ATOM	1486	C	PRO	198	-8.070	24.579	58.489	1.00	23.71
ATOM	1487	O	PRO	198	-7.840	23.965	57.445	1.00	24.75
ATOM	1488	N	VAL	199	-7.765	25.859	58.659	1.00	22.66
ATOM	1489	CA	VAL	199	-7.090	26.628	57.633	1.00	21.26
ATOM	1490	CB	VAL	199	-7.840	27.952	57.343	1.00	21.86
ATOM	1491	CG1	VAL	199	-7.104	28.753	56.286	1.00	21.68

ATOM	1492	CG2	VAL	199	-9.261	27.651	56.881	1.00	23.56
ATOM	1493	C	VAL	199	-5.677	26.948	58.113	1.00	22.90
ATOM	1494	O	VAL	199	-5.489	27.514	59.191	1.00	21.18
ATOM	1495	N	ILE	200	-4.689	26.568	57.311	1.00	21.02
ATOM	1496	CA	ILE	200	-3.286	26.799	57.633	1.00	20.82
ATOM	1497	CB	ILE	200	-2.425	25.579	57.265	1.00	22.17
ATOM	1498	CG2	ILE	200	-0.956	25.857	57.584	1.00	21.54
ATOM	1499	CG1	ILE	200	-2.925	24.346	58.015	1.00	21.31
ATOM	1500	CD1	ILE	200	-2.202	23.066	57.627	1.00	26.13
ATOM	1501	C	ILE	200	-2.800	27.984	56.821	1.00	21.27
ATOM	1502	O	ILE	200	-2.820	27.952	55.590	1.00	19.70
ATOM	1503	N	GLY	201	-2.344	29.025	57.505	1.00	21.83
ATOM	1504	CA	GLY	201	-1.883	30.199	56.791	1.00	21.11
ATOM	1505	C	GLY	201	-0.382	30.376	56.722	1.00	21.20
ATOM	1506	O	GLY	201	0.360	29.915	57.586	1.00	20.91
ATOM	1507	N	ILE	202	0.053	31.035	55.656	1.00	20.88
ATOM	1508	CA	ILE	202	1.449	31.357	55.434	1.00	23.63
ATOM	1509	CB	ILE	202	2.135	30.374	54.442	1.00	25.53
ATOM	1510	CG2	ILE	202	1.199	30.026	53.295	1.00	25.11
ATOM	1511	CG1	ILE	202	3.431	30.991	53.922	1.00	26.37
ATOM	1512	CD1	ILE	202	4.537	31.025	54.938	1.00	25.90
ATOM	1513	C	ILE	202	1.401	32.754	54.827	1.00	23.67
ATOM	1514	O	ILE	202	1.098	32.921	53.647	1.00	24.24
ATOM	1515	N	GLY	203	1.672	33.760	55.649	1.00	24.85
ATOM	1516	CA	GLY	203	1.615	35.130	55.177	1.00	24.91
ATOM	1517	C	GLY	203	0.167	35.580	55.162	1.00	24.72
ATOM	1518	O	GLY	203	-0.222	36.447	54.378	1.00	26.70
ATOM	1519	N	ALA	204	-0.635	34.981	56.037	1.00	24.39
ATOM	1520	CA	ALA	204	-2.054	35.308	56.132	1.00	25.25
ATOM	1521	CB	ALA	204	-2.889	34.113	55.704	1.00	25.27
ATOM	1522	C	ALA	204	-2.467	35.745	57.538	1.00	25.30
ATOM	1523	O	ALA	204	-3.648	35.701	57.885	1.00	26.25
ATOM	1524	N	GLY	205	-1.495	36.155	58.346	1.00	26.07
ATOM	1525	CA	GLY	205	-1.798	36.597	59.699	1.00	25.17
ATOM	1526	C	GLY	205	-1.952	35.459	60.688	1.00	25.65
ATOM	1527	O	GLY	205	-1.853	34.294	60.316	1.00	24.90
ATOM	1528	N	ASN	206	-2.195	35.791	61.952	1.00	24.53
ATOM	1529	CA	ASN	206	-2.350	34.772	62.983	1.00	24.06
ATOM	1530	CB	ASN	206	-1.739	35.250	64.298	1.00	25.67
ATOM	1531	CG	ASN	206	-2.512	36.405	64.915	1.00	27.21
ATOM	1532	OD1	ASN	206	-2.316	36.744	66.081	1.00	27.76
ATOM	1533	ND2	ASN	206	-3.393	37.016	64.131	1.00	24.74
ATOM	1534	C	ASN	206	-3.805	34.407	63.230	1.00	22.53
ATOM	1535	O	ASN	206	-4.127	33.788	64.246	1.00	21.69
ATOM	1536	N	VAL	207	-4.680	34.786	62.305	1.00	21.94
ATOM	1537	CA	VAL	207	-6.098	34.496	62.446	1.00	23.84
ATOM	1538	CB	VAL	207	-6.953	35.513	61.668	1.00	26.20
ATOM	1539	CG1	VAL	207	-8.423	35.336	62.037	1.00	29.08
ATOM	1540	CG2	VAL	207	-6.488	36.925	61.981	1.00	27.68
ATOM	1541	C	VAL	207	-6.453	33.091	61.965	1.00	24.32
ATOM	1542	O	VAL	207	-7.563	32.600	62.203	1.00	23.30
ATOM	1543	N	THR	208	-5.513	32.431	61.297	1.00	23.32
ATOM	1544	CA	THR	208	-5.779	31.086	60.811	1.00	23.51
ATOM	1545	CB	THR	208	-4.840	30.708	59.643	1.00	23.12
ATOM	1546	OG1	THR	208	-3.481	30.977	60.008	1.00	21.10
ATOM	1547	CG2	THR	208	-5.198	31.502	58.402	1.00	23.13
ATOM	1548	C	THR	208	-5.663	30.053	61.919	1.00	24.29
ATOM	1549	O	THR	208	-5.129	30.331	62.995	1.00	24.25
ATOM	1550	N	ASP	209	-6.185	28.861	61.657	1.00	22.58
ATOM	1551	CA	ASP	209	-6.164	27.788	62.642	1.00	22.69
ATOM	1552	CB	ASP	209	-7.091	26.665	62.194	1.00	22.67
ATOM	1553	CG	ASP	209	-8.501	27.146	61.961	1.00	25.87
ATOM	1554	OD1	ASP	209	-9.130	27.621	62.931	1.00	23.71
ATOM	1555	OD2	ASP	209	-8.980	27.056	60.808	1.00	24.21
ATOM	1556	C	ASP	209	-4.764	27.244	62.830	1.00	21.49
ATOM	1557	O	ASP	209	-4.451	26.657	63.863	1.00	21.81
ATOM	1558	N	GLY	210	-3.928	27.444	61.819	1.00	21.84
ATOM	1559	CA	GLY	210	-2.569	26.956	61.891	1.00	20.56
ATOM	1560	C	GLY	210	-1.623	27.775	61.043	1.00	20.58
ATOM	1561	O	GLY	210	-2.049	28.651	60.287	1.00	21.05
ATOM	1562	N	GLN	211	-0.332	27.473	61.156	1.00	20.83
ATOM	1563	CA	GLN	211	0.699	28.192	60.424	1.00	21.52
ATOM	1564	CB	GLN	211	1.459	29.119	61.379	1.00	22.07
ATOM	1565	CG	GLN	211	0.626	30.239	61.993	1.00	19.78
ATOM	1566	CD	GLN	211	0.135	31.229	60.960	1.00	21.63
ATOM	1567	OE1	GLN	211	0.895	31.663	60.093	1.00	23.63
ATOM	1568	NE2	GLN	211	-1.139	31.608	61.055	1.00	21.71

ATOM	1569	C	GLN	211	1.701	27.250	59.761	1.00	21.50
ATOM	1570	O	GLN	211	1.886	26.117	60.199	1.00	20.81
ATOM	1571	N	ILE	212	2.344	27.724	58.700	1.00	22.48
ATOM	1572	CA	ILE	212	3.351	26.921	58.023	1.00	26.35
ATOM	1573	CB	ILE	212	2.755	26.171	56.799	1.00	28.17
ATOM	1574	CG2	ILE	212	2.484	27.139	55.660	1.00	29.37
ATOM	1575	CG1	ILE	212	3.725	25.075	56.344	1.00	29.11
ATOM	1576	CD1	ILE	212	3.081	24.015	55.457	1.00	31.12
ATOM	1577	C	ILE	212	4.494	27.829	57.588	1.00	28.11
ATOM	1578	O	ILE	212	4.287	29.011	57.319	1.00	29.09
ATOM	1579	N	LEU	213	5.706	27.287	57.556	1.00	29.45
ATOM	1580	CA	LEU	213	6.870	28.062	57.135	1.00	31.99
ATOM	1581	CB	LEU	213	7.432	28.880	58.300	1.00	33.40
ATOM	1582	CG	LEU	213	7.351	30.415	58.241	1.00	33.83
ATOM	1583	CD1	LEU	213	8.119	30.972	59.435	1.00	32.93
ATOM	1584	CD2	LEU	213	7.941	30.952	56.936	1.00	31.79
ATOM	1585	C	LEU	213	7.970	27.159	56.602	1.00	32.15
ATOM	1586	O	LEU	213	8.143	26.033	57.076	1.00	31.38
ATOM	1587	N	VAL	214	8.699	27.656	55.607	1.00	31.01
ATOM	1588	CA	VAL	214	9.808	26.913	55.025	1.00	30.31
ATOM	1589	CB	VAL	214	10.300	27.550	53.695	1.00	31.87
ATOM	1590	CG1	VAL	214	11.516	26.796	53.174	1.00	32.34
ATOM	1591	CG2	VAL	214	9.188	27.505	52.659	1.00	33.39
ATOM	1592	C	VAL	214	10.923	26.976	56.060	1.00	28.15
ATOM	1593	O	VAL	214	11.440	28.050	56.362	1.00	28.96
ATOM	1594	N	MET	215	11.268	25.820	56.614	1.00	25.80
ATOM	1595	CA	MET	215	12.299	25.727	57.632	1.00	24.04
ATOM	1596	CB	MET	215	12.617	24.254	57.927	1.00	21.67
ATOM	1597	CG	MET	215	13.046	23.449	56.708	1.00	21.44
ATOM	1598	SD	MET	215	14.311	22.218	57.084	1.00	19.28
ATOM	1599	CE	MET	215	15.756	23.248	56.942	1.00	20.16
ATOM	1600	C	MET	215	13.575	26.465	57.253	1.00	23.77
ATOM	1601	O	MET	215	14.253	27.025	58.114	1.00	24.19
ATOM	1602	N	HIS	216	13.901	26.489	55.966	1.00	23.61
ATOM	1603	CA	HIS	216	15.122	27.163	55.520	1.00	25.02
ATOM	1604	CB	HIS	216	15.342	26.890	54.035	1.00	25.17
ATOM	1605	CG	HIS	216	15.707	25.468	53.751	1.00	25.07
ATOM	1606	CD2	HIS	216	14.939	24.360	53.621	1.00	22.61
ATOM	1607	ND1	HIS	216	17.014	25.039	53.656	1.00	24.95
ATOM	1608	CE1	HIS	216	17.035	23.730	53.479	1.00	23.43
ATOM	1609	NE2	HIS	216	15.788	23.294	53.455	1.00	26.42
ATOM	1610	C	HIS	216	15.132	28.659	55.812	1.00	26.05
ATOM	1611	O	HIS	216	16.195	29.277	55.872	1.00	25.85
ATOM	1612	N	ASP	217	13.949	29.238	56.000	1.00	27.68
ATOM	1613	CA	ASP	217	13.848	30.661	56.321	1.00	31.25
ATOM	1614	CB	ASP	217	12.576	31.271	55.713	1.00	33.06
ATOM	1615	CG	ASP	217	12.653	31.406	54.200	1.00	35.27
ATOM	1616	OD1	ASP	217	13.623	32.016	53.700	1.00	36.27
ATOM	1617	OD2	ASP	217	11.735	30.916	53.507	1.00	37.69
ATOM	1618	C	ASP	217	13.827	30.825	57.845	1.00	31.02
ATOM	1619	O	ASP	217	14.353	31.803	58.394	1.00	32.35
ATOM	1620	N	ALA	218	13.225	29.853	58.524	1.00	30.86
ATOM	1621	CA	ALA	218	13.121	29.882	59.981	1.00	30.59
ATOM	1622	CB	ALA	218	12.208	28.761	60.451	1.00	30.22
ATOM	1623	C	ALA	218	14.471	29.783	60.689	1.00	31.33
ATOM	1624	O	ALA	218	14.593	30.180	61.851	1.00	31.23
ATOM	1625	N	PHE	219	15.482	29.267	59.992	1.00	30.28
ATOM	1626	CA	PHE	219	16.804	29.117	60.589	1.00	29.83
ATOM	1627	CB	PHE	219	17.202	27.640	60.598	1.00	29.92
ATOM	1628	CG	PHE	219	16.148	26.736	61.177	1.00	30.71
ATOM	1629	CD1	PHE	219	15.529	27.052	62.385	1.00	31.14
ATOM	1630	CD2	PHE	219	15.781	25.562	60.524	1.00	31.43
ATOM	1631	CE1	PHE	219	14.562	26.213	62.935	1.00	31.73
ATOM	1632	CE2	PHE	219	14.811	24.714	61.067	1.00	32.41
ATOM	1633	CZ	PHE	219	14.202	25.041	62.275	1.00	31.77
ATOM	1634	C	PHE	219	17.881	29.943	59.899	1.00	29.17
ATOM	1635	O	PHE	219	19.069	29.621	59.968	1.00	29.21
ATOM	1636	N	GLY	220	17.458	31.014	59.237	1.00	29.74
ATOM	1637	CA	GLY	220	18.390	31.889	58.550	1.00	29.75
ATOM	1638	C	GLY	220	19.357	31.185	57.621	1.00	30.84
ATOM	1639	O	GLY	220	20.507	31.601	57.485	1.00	30.29
ATOM	1640	N	ILE	221	18.900	30.120	56.973	1.00	30.94
ATOM	1641	CA	ILE	221	19.754	29.380	56.053	1.00	30.23
ATOM	1642	CB	ILE	221	19.270	27.930	55.896	1.00	28.54
ATOM	1643	CG2	ILE	221	20.167	27.187	54.908	1.00	26.85
ATOM	1644	CG1	ILE	221	19.288	27.239	57.263	1.00	27.41
ATOM	1645	CD1	ILE	221	18.654	25.879	57.279	1.00	26.63

ATOM	1646	C	ILE	221	19.759	30.060	54.691	1.00	31.63
ATOM	1647	O	ILE	221	20.799	30.178	54.041	1.00	30.47
ATOM	1648	N	THR	222	18.590	30.528	54.275	1.00	33.36
ATOM	1649	CA	THR	222	18.453	31.193	52.989	1.00	37.25
ATOM	1650	CB	THR	222	16.981	31.241	52.555	1.00	36.65
ATOM	1651	OG1	THR	222	16.249	32.088	53.448	1.00	39.18
ATOM	1652	CG2	THR	222	16.375	29.851	52.594	1.00	35.68
ATOM	1653	C	THR	222	18.995	32.616	53.029	1.00	39.66
ATOM	1654	O	THR	222	18.770	33.345	53.993	1.00	39.16
ATOM	1655	N	GLY	223	19.713	32.990	51.970	1.00	43.16
ATOM	1656	CA	GLY	223	20.292	34.320	51.848	1.00	47.53
ATOM	1657	C	GLY	223	20.326	35.168	53.105	1.00	50.12
ATOM	1658	O	GLY	223	20.927	34.786	54.110	1.00	51.54
ATOM	1659	N	GLY	224	19.680	36.327	53.052	1.00	51.89
ATOM	1660	CA	GLY	224	19.663	37.202	54.207	1.00	54.05
ATOM	1661	C	GLY	224	18.324	37.871	54.422	1.00	56.18
ATOM	1662	O	GLY	224	17.767	37.824	55.520	1.00	56.72
ATOM	1663	N	HIS	225	17.802	38.495	53.371	1.00	57.60
ATOM	1664	CA	HIS	225	16.520	39.185	53.453	1.00	58.83
ATOM	1665	CB	HIS	225	16.487	40.359	52.470	1.00	61.50
ATOM	1666	CG	HIS	225	17.419	41.475	52.828	1.00	63.93
ATOM	1667	CD2	HIS	225	18.446	42.036	52.146	1.00	65.25
ATOM	1668	ND1	HIS	225	17.338	42.155	54.025	1.00	65.20
ATOM	1669	CE1	HIS	225	18.275	43.087	54.063	1.00	65.92
ATOM	1670	NE2	HIS	225	18.960	43.036	52.935	1.00	66.01
ATOM	1671	C	HIS	225	15.340	38.257	53.183	1.00	57.89
ATOM	1672	O	HIS	225	14.797	38.234	52.079	1.00	58.08
ATOM	1673	N	ILE	226	14.947	37.497	54.201	1.00	56.71
ATOM	1674	CA	ILE	226	13.825	36.573	54.080	1.00	55.07
ATOM	1675	CB	ILE	226	13.651	35.740	55.367	1.00	55.20
ATOM	1676	CG2	ILE	226	14.888	34.885	55.601	1.00	54.98
ATOM	1677	CG1	ILE	226	13.400	36.668	56.558	1.00	54.81
ATOM	1678	CD1	ILE	226	13.109	35.942	57.852	1.00	54.53
ATOM	1679	C	ILE	226	12.541	37.359	53.820	1.00	53.36
ATOM	1680	O	ILE	226	12.499	38.576	54.020	1.00	54.02
ATOM	1681	N	PRO	227	11.473	36.674	53.377	1.00	50.99
ATOM	1682	CD	PRO	227	11.336	35.223	53.161	1.00	49.98
ATOM	1683	CA	PRO	227	10.206	37.361	53.104	1.00	48.87
ATOM	1684	CB	PRO	227	9.319	36.242	52.564	1.00	48.89
ATOM	1685	CG	PRO	227	9.847	35.031	53.259	1.00	49.85
ATOM	1686	C	PRO	227	9.615	38.045	54.336	1.00	46.39
ATOM	1687	O	PRO	227	9.860	37.626	55.465	1.00	46.32
ATOM	1688	N	LYS	228	8.839	39.101	54.108	1.00	44.27
ATOM	1689	CA	LYS	228	8.222	39.850	55.195	1.00	41.95
ATOM	1690	CB	LYS	228	7.360	40.992	54.648	1.00	43.42
ATOM	1691	CG	LYS	228	8.139	42.134	54.016	1.00	47.18
ATOM	1692	CD	LYS	228	8.750	41.736	52.678	1.00	49.90
ATOM	1693	CE	LYS	228	9.498	42.906	52.048	1.00	51.00
ATOM	1694	NZ	LYS	228	10.007	42.601	50.679	1.00	51.75
ATOM	1695	C	LYS	228	7.367	38.987	56.110	1.00	39.05
ATOM	1696	O	LYS	228	7.232	39.278	57.297	1.00	39.22
ATOM	1697	N	PHE	229	6.787	37.927	55.561	1.00	35.73
ATOM	1698	CA	PHE	229	5.935	37.052	56.352	1.00	31.21
ATOM	1699	CB	PHE	229	4.883	36.397	55.453	1.00	32.42
ATOM	1700	CG	PHE	229	5.460	35.543	54.360	1.00	32.78
ATOM	1701	CD1	PHE	229	5.908	34.253	54.625	1.00	32.94
ATOM	1702	CD2	PHE	229	5.554	36.030	53.060	1.00	34.15
ATOM	1703	CE1	PHE	229	6.442	33.457	53.606	1.00	32.72
ATOM	1704	CE2	PHE	229	6.086	35.246	52.034	1.00	33.39
ATOM	1705	CZ	PHE	229	6.529	33.958	52.309	1.00	33.05
ATOM	1706	C	PHE	229	6.707	35.985	57.116	1.00	28.23
ATOM	1707	O	PHE	229	6.126	35.262	57.921	1.00	28.17
ATOM	1708	N	ALA	230	8.013	35.900	56.876	1.00	26.34
ATOM	1709	CA	ALA	230	8.848	34.907	57.544	1.00	24.97
ATOM	1710	CB	ALA	230	9.833	34.304	56.552	1.00	26.85
ATOM	1711	C	ALA	230	9.605	35.484	58.734	1.00	26.01
ATOM	1712	O	ALA	230	9.743	36.700	58.865	1.00	25.21
ATOM	1713	N	LYS	231	10.090	34.596	59.600	1.00	24.27
ATOM	1714	CA	LYS	231	10.838	34.999	60.786	1.00	24.53
ATOM	1715	CB	LYS	231	9.898	35.149	61.989	1.00	25.49
ATOM	1716	CG	LYS	231	10.609	35.476	63.295	1.00	25.37
ATOM	1717	CD	LYS	231	9.634	35.596	64.455	1.00	28.18
ATOM	1718	CE	LYS	231	10.372	35.784	65.780	1.00	29.49
ATOM	1719	NZ	LYS	231	9.434	35.995	66.923	1.00	29.09
ATOM	1720	C	LYS	231	11.919	33.977	61.118	1.00	23.25
ATOM	1721	O	LYS	231	11.674	32.775	61.097	1.00	20.91
ATOM	1722	N	ASN	232	13.115	34.470	61.419	1.00	22.11

ATOM	1723	CA	ASN	232	14.238	33.617	61.775	1.00	22.68
ATOM	1724	CB	ASN	232	15.550	34.325	61.427	1.00	22.74
ATOM	1725	CG	ASN	232	16.770	33.476	61.711	1.00	22.28
ATOM	1726	OD1	ASN	232	16.710	32.519	62.477	1.00	22.05
ATOM	1727	ND2	ASN	232	17.897	33.839	61.103	1.00	21.01
ATOM	1728	C	ASN	232	14.157	33.363	63.283	1.00	22.41
ATOM	1729	O	ASN	232	14.442	34.256	64.083	1.00	22.40
ATOM	1730	N	PHE	233	13.754	32.158	63.670	1.00	20.06
ATOM	1731	CA	PHE	233	13.640	31.816	65.083	1.00	21.57
ATOM	1732	CB	PHE	233	12.623	30.692	65.284	1.00	20.88
ATOM	1733	CG	PHE	233	11.193	31.121	65.109	1.00	20.63
ATOM	1734	CD1	PHE	233	10.614	31.161	63.849	1.00	21.32
ATOM	1735	CD2	PHE	233	10.428	31.498	66.210	1.00	20.85
ATOM	1736	CE1	PHE	233	9.289	31.566	63.678	1.00	21.06
ATOM	1737	CE2	PHE	233	9.102	31.905	66.053	1.00	21.27
ATOM	1738	CZ	PHE	233	8.536	31.940	64.783	1.00	19.83
ATOM	1739	C	PHE	233	14.973	31.400	65.698	1.00	21.41
ATOM	1740	O	PHE	233	15.130	31.398	66.921	1.00	22.96
ATOM	1741	N	LEU	234	15.928	31.033	64.852	1.00	22.02
ATOM	1742	CA	LEU	234	17.242	30.622	65.328	1.00	24.52
ATOM	1743	CB	LEU	234	18.008	29.894	64.219	1.00	23.62
ATOM	1744	CG	LEU	234	19.465	29.538	64.524	1.00	22.78
ATOM	1745	CD1	LEU	234	19.527	28.580	65.701	1.00	21.54
ATOM	1746	CD2	LEU	234	20.112	28.923	63.292	1.00	25.26
ATOM	1747	C	LEU	234	18.045	31.838	65.773	1.00	26.95
ATOM	1748	O	LEU	234	18.727	31.801	66.796	1.00	25.49
ATOM	1749	N	ALA	235	17.958	32.911	64.996	1.00	30.52
ATOM	1750	CA	ALA	235	18.681	34.138	65.302	1.00	36.40
ATOM	1751	CB	ALA	235	18.274	35.239	64.331	1.00	37.16
ATOM	1752	C	ALA	235	18.417	34.578	66.736	1.00	40.32
ATOM	1753	O	ALA	235	19.337	34.973	67.454	1.00	40.96
ATOM	1754	N	GLU	236	17.154	34.501	67.145	1.00	43.98
ATOM	1755	CA	GLU	236	16.750	34.881	68.497	1.00	47.59
ATOM	1756	CB	GLU	236	15.280	34.514	68.730	1.00	48.96
ATOM	1757	CG	GLU	236	14.320	34.967	67.632	1.00	51.28
ATOM	1758	CD	GLU	236	14.177	36.477	67.544	1.00	52.90
ATOM	1759	OE1	GLU	236	15.174	37.159	67.224	1.00	53.61
ATOM	1760	OE2	GLU	236	13.063	36.984	67.798	1.00	53.70
ATOM	1761	C	GLU	236	17.625	34.138	69.502	1.00	48.66
ATOM	1762	O	GLU	236	18.234	34.748	70.380	1.00	49.42
ATOM	1763	N	THR	237	17.681	32.817	69.355	1.00	49.40
ATOM	1764	CA	THR	237	18.475	31.967	70.235	1.00	49.62
ATOM	1765	CB	THR	237	17.668	30.713	70.667	1.00	50.79
ATOM	1766	OG1	THR	237	18.464	29.900	71.542	1.00	52.05
ATOM	1767	CG2	THR	237	17.247	29.894	69.452	1.00	51.76
ATOM	1768	C	THR	237	19.772	31.529	69.548	1.00	48.44
ATOM	1769	O	THR	237	20.349	32.278	68.759	1.00	49.89
ATOM	1770	N	GLY	238	20.234	30.323	69.858	1.00	46.44
ATOM	1771	CA	GLY	238	21.451	29.819	69.248	1.00	42.67
ATOM	1772	C	GLY	238	21.379	28.318	69.059	1.00	41.05
ATOM	1773	O	GLY	238	22.385	27.663	68.790	1.00	41.30
ATOM	1774	N	ASP	239	20.174	27.776	69.194	1.00	37.96
ATOM	1775	CA	ASP	239	19.950	26.345	69.058	1.00	34.93
ATOM	1776	CB	ASP	239	19.748	25.735	70.449	1.00	38.61
ATOM	1777	CG	ASP	239	19.415	24.262	70.399	1.00	41.94
ATOM	1778	OD1	ASP	239	18.237	23.928	70.170	1.00	42.16
ATOM	1779	OD2	ASP	239	20.341	23.438	70.582	1.00	45.62
ATOM	1780	C	ASP	239	18.743	26.059	68.162	1.00	31.17
ATOM	1781	O	ASP	239	17.661	26.608	68.370	1.00	28.67
ATOM	1782	N	ILE	240	18.926	25.198	67.164	1.00	25.89
ATOM	1783	CA	ILE	240	17.834	24.882	66.252	1.00	22.33
ATOM	1784	CB	ILE	240	18.295	23.912	65.132	1.00	21.20
ATOM	1785	CG2	ILE	240	17.099	23.518	64.256	1.00	17.39
ATOM	1786	CG1	ILE	240	19.356	24.592	64.265	1.00	21.01
ATOM	1787	CD1	ILE	240	20.042	23.665	63.267	1.00	21.65
ATOM	1788	C	ILE	240	16.609	24.312	66.970	1.00	19.27
ATOM	1789	O	ILE	240	15.495	24.756	66.719	1.00	21.10
ATOM	1790	N	ARG	241	16.808	23.352	67.870	1.00	19.73
ATOM	1791	CA	ARG	241	15.687	22.761	68.592	1.00	19.91
ATOM	1792	CB	ARG	241	16.167	21.604	69.472	1.00	18.67
ATOM	1793	CG	ARG	241	16.544	20.366	68.659	1.00	19.80
ATOM	1794	CD	ARG	241	17.266	19.307	69.474	1.00	21.32
ATOM	1795	NE	ARG	241	17.484	18.087	68.692	1.00	22.98
ATOM	1796	CZ	ARG	241	18.334	17.979	67.675	1.00	24.19
ATOM	1797	NH1	ARG	241	19.068	19.018	67.302	1.00	25.28
ATOM	1798	NH2	ARG	241	18.444	16.830	67.018	1.00	24.38
ATOM	1799	C	ARG	241	14.964	23.806	69.427	1.00	20.32



ATOM	1800	O	ARG	241	13.727	23.803	69.520	1.00	19.66
ATOM	1801	N	ALA	242	15.730	24.707	70.034	1.00	19.52
ATOM	1802	CA	ALA	242	15.133	25.771	70.832	1.00	19.63
ATOM	1803	CB	ALA	242	16.227	26.580	71.524	1.00	20.26
ATOM	1804	C	ALA	242	14.312	26.662	69.896	1.00	19.55
ATOM	1805	O	ALA	242	13.233	27.133	70.267	1.00	21.30
ATOM	1806	N	ALA	243	14.804	26.874	68.676	1.00	18.14
ATOM	1807	CA	ALA	243	14.074	27.700	67.707	1.00	19.54
ATOM	1808	CB	ALA	243	14.928	27.944	66.457	1.00	18.09
ATOM	1809	C	ALA	243	12.748	27.031	67.326	1.00	19.51
ATOM	1810	O	ALA	243	11.731	27.701	67.180	1.00	20.19
ATOM	1811	N	VAL	244	12.769	25.710	67.157	1.00	21.10
ATOM	1812	CA	VAL	244	11.554	24.969	66.818	1.00	19.17
ATOM	1813	CB	VAL	244	11.842	23.457	66.632	1.00	18.81
ATOM	1814	CG1	VAL	244	10.536	22.668	66.538	1.00	18.20
ATOM	1815	CG2	VAL	244	12.671	23.245	65.361	1.00	17.47
ATOM	1816	C	VAL	244	10.521	25.146	67.927	1.00	20.06
ATOM	1817	O	VAL	244	9.336	25.348	67.660	1.00	19.30
ATOM	1818	N	ARG	245	10.972	25.073	69.174	1.00	21.06
ATOM	1819	CA	ARG	245	10.063	25.227	70.297	1.00	21.32
ATOM	1820	CB	ARG	245	10.780	24.907	71.615	1.00	21.31
ATOM	1821	CG	ARG	245	11.128	23.427	71.766	1.00	22.58
ATOM	1822	CD	ARG	245	11.472	23.053	73.209	1.00	25.04
ATOM	1823	NE	ARG	245	12.697	23.674	73.698	1.00	26.83
ATOM	1824	CZ	ARG	245	13.930	23.291	73.375	1.00	29.75
ATOM	1825	NH1	ARG	245	14.126	22.274	72.547	1.00	30.29
ATOM	1826	NH2	ARG	245	14.980	23.921	73.896	1.00	29.20
ATOM	1827	C	ARG	245	9.435	26.619	70.352	1.00	21.20
ATOM	1828	O	ARG	245	8.236	26.749	70.605	1.00	21.04
ATOM	1829	N	GLN	246	10.231	27.653	70.095	1.00	22.00
ATOM	1830	CA	GLN	246	9.730	29.024	70.122	1.00	23.64
ATOM	1831	CB	GLN	246	10.877	30.012	69.919	1.00	26.15
ATOM	1832	CG	GLN	246	10.464	31.464	70.076	1.00	29.62
ATOM	1833	CD	GLN	246	11.652	32.399	70.056	1.00	33.46
ATOM	1834	OE1	GLN	246	12.600	32.222	70.822	1.00	35.90
ATOM	1835	NE2	GLN	246	11.609	33.404	69.185	1.00	34.94
ATOM	1836	C	GLN	246	8.683	29.220	69.036	1.00	24.20
ATOM	1837	O	GLN	246	7.664	29.880	69.245	1.00	23.85
ATOM	1838	N	TYR	247	8.942	28.651	67.864	1.00	21.90
ATOM	1839	CA	TYR	247	7.999	28.751	66.761	1.00	21.66
ATOM	1840	CB	TYR	247	8.571	28.037	65.528	1.00	19.75
ATOM	1841	CG	TYR	247	7.579	27.795	64.419	1.00	20.83
ATOM	1842	CD1	TYR	247	6.815	28.837	63.899	1.00	19.45
ATOM	1843	CE1	TYR	247	5.892	28.612	62.885	1.00	21.16
ATOM	1844	CD2	TYR	247	7.398	26.517	63.891	1.00	21.25
ATOM	1845	CE2	TYR	247	6.480	26.281	62.876	1.00	21.03
ATOM	1846	CZ	TYR	247	5.729	27.327	62.378	1.00	20.70
ATOM	1847	OH	TYR	247	4.802	27.085	61.388	1.00	20.47
ATOM	1848	C	TYR	247	6.673	28.125	67.199	1.00	21.28
ATOM	1849	O	TYR	247	5.609	28.723	67.026	1.00	21.42
ATOM	1850	N	MET	248	6.746	26.929	67.782	1.00	20.26
ATOM	1851	CA	MET	248	5.556	26.219	68.258	1.00	21.53
ATOM	1852	CB	MET	248	5.951	24.872	68.884	1.00	21.82
ATOM	1853	CG	MET	248	6.426	23.815	67.882	1.00	21.90
ATOM	1854	SD	MET	248	7.248	22.415	68.688	1.00	26.67
ATOM	1855	CE	MET	248	5.858	21.537	69.370	1.00	24.87
ATOM	1856	C	MET	248	4.786	27.040	69.293	1.00	22.86
ATOM	1857	O	MET	248	3.554	27.155	69.231	1.00	21.83
ATOM	1858	N	ALA	249	5.518	27.606	70.247	1.00	21.40
ATOM	1859	CA	ALA	249	4.898	28.405	71.299	1.00	21.90
ATOM	1860	CB	ALA	249	5.926	28.738	72.369	1.00	21.23
ATOM	1861	C	ALA	249	4.252	29.687	70.778	1.00	21.43
ATOM	1862	O	ALA	249	3.099	29.979	71.105	1.00	22.72
ATOM	1863	N	GLU	250	4.989	30.448	69.970	1.00	22.09
ATOM	1864	CA	GLU	250	4.469	31.707	69.433	1.00	23.27
ATOM	1865	CB	GLU	250	5.549	32.454	68.649	1.00	22.04
ATOM	1866	CG	GLU	250	6.815	32.693	69.442	1.00	24.15
ATOM	1867	CD	GLU	250	7.629	33.860	68.923	1.00	24.35
ATOM	1868	OE1	GLU	250	7.549	34.169	67.719	1.00	25.60
ATOM	1869	OE2	GLU	250	8.362	34.464	69.729	1.00	25.39
ATOM	1870	C	GLU	250	3.231	31.538	68.558	1.00	25.21
ATOM	1871	O	GLU	250	2.406	32.454	68.449	1.00	24.11
ATOM	1872	N	VAL	251	3.093	30.376	67.930	1.00	24.87
ATOM	1873	CA	VAL	251	1.927	30.135	67.094	1.00	24.81
ATOM	1874	CB	VAL	251	2.114	28.886	66.198	1.00	23.31
ATOM	1875	CG1	VAL	251	0.827	28.605	65.431	1.00	22.66
ATOM	1876	CG2	VAL	251	3.260	29.108	65.234	1.00	23.33

ATOM	1877	C	VAL	251	0.693	29.927	67.970	1.00	25.72
ATOM	1878	O	VAL	251	-0.355	30.524	67.731	1.00	26.34
ATOM	1879	N	GLU	252	0.825	29.085	68.990	1.00	25.88
ATOM	1880	CA	GLU	252	-0.291	28.804	69.885	1.00	28.97
ATOM	1881	CB	GLU	252	0.066	27.667	70.842	1.00	31.63
ATOM	1882	CG	GLU	252	-1.076	27.268	71.762	1.00	35.49
ATOM	1883	CD	GLU	252	-0.739	26.078	72.633	1.00	38.81
ATOM	1884	OE1	GLU	252	-1.557	25.730	73.513	1.00	41.32
ATOM	1885	OE2	GLU	252	0.343	25.486	72.438	1.00	40.57
ATOM	1886	C	GLU	252	-0.713	30.026	70.686	1.00	29.30
ATOM	1887	O	GLU	252	-1.872	30.142	71.082	1.00	28.02
ATOM	1888	N	SER	253	0.233	30.930	70.922	1.00	30.46
ATOM	1889	CA	SER	253	-0.038	32.148	71.681	1.00	32.50
ATOM	1890	CB	SER	253	1.209	32.572	72.450	1.00	32.17
ATOM	1891	OG	SER	253	1.459	31.671	73.519	1.00	39.52
ATOM	1892	C	SER	253	-0.497	33.302	70.794	1.00	31.92
ATOM	1893	O	SER	253	-1.051	34.288	71.283	1.00	32.17
ATOM	1894	N	GLY	254	-0.264	33.178	69.492	1.00	30.27
ATOM	1895	CA	GLY	254	-0.665	34.227	68.571	1.00	27.52
ATOM	1896	C	GLY	254	0.429	35.249	68.330	1.00	26.04
ATOM	1897	O	GLY	254	0.259	36.178	67.541	1.00	28.43
ATOM	1898	N	VAL	255	1.556	35.083	69.013	1.00	25.10
ATOM	1899	CA	VAL	255	2.678	35.998	68.861	1.00	24.43
ATOM	1900	CB	VAL	255	3.806	35.637	69.836	1.00	24.55
ATOM	1901	CG1	VAL	255	5.016	36.530	69.601	1.00	25.47
ATOM	1902	CG2	VAL	255	3.299	35.782	71.264	1.00	27.69
ATOM	1903	C	VAL	255	3.209	35.966	67.433	1.00	23.67
ATOM	1904	O	VAL	255	3.667	36.981	66.901	1.00	21.95
ATOM	1905	N	TYR	256	3.155	34.786	66.821	1.00	24.22
ATOM	1906	CA	TYR	256	3.597	34.614	65.441	1.00	22.81
ATOM	1907	CB	TYR	256	4.856	33.739	65.356	1.00	22.52
ATOM	1908	CG	TYR	256	5.361	33.602	63.935	1.00	22.38
ATOM	1909	CD1	TYR	256	6.061	34.644	63.320	1.00	22.41
ATOM	1910	CE1	TYR	256	6.436	34.574	61.975	1.00	23.46
ATOM	1911	CD2	TYR	256	5.053	32.473	63.171	1.00	23.14
ATOM	1912	CE2	TYR	256	5.419	32.388	61.825	1.00	22.31
ATOM	1913	CZ	TYR	256	6.108	33.443	61.234	1.00	25.45
ATOM	1914	OH	TYR	256	6.448	33.378	59.894	1.00	23.06
ATOM	1915	C	TYR	256	2.476	33.950	64.645	1.00	22.89
ATOM	1916	O	TYR	256	1.860	32.995	65.107	1.00	20.80
ATOM	1917	N	PRO	257	2.188	34.465	63.441	1.00	23.79
ATOM	1918	CD	PRO	257	1.258	33.861	62.468	1.00	25.59
ATOM	1919	CA	PRO	257	2.886	35.611	62.854	1.00	25.56
ATOM	1920	CB	PRO	257	2.485	35.542	61.379	1.00	26.50
ATOM	1921	CG	PRO	257	1.128	34.947	61.427	1.00	26.66
ATOM	1922	C	PRO	257	2.489	36.934	63.513	1.00	26.91
ATOM	1923	O	PRO	257	1.382	37.074	64.027	1.00	26.07
ATOM	1924	N	GLY	258	3.412	37.889	63.501	1.00	28.06
ATOM	1925	CA	GLY	258	3.141	39.182	64.092	1.00	31.45
ATOM	1926	C	GLY	258	2.550	40.108	63.052	1.00	33.08
ATOM	1927	O	GLY	258	2.454	39.750	61.875	1.00	31.82
ATOM	1928	N	GLU	259	2.153	41.301	63.476	1.00	33.88
ATOM	1929	CA	GLU	259	1.571	42.259	62.554	1.00	35.72
ATOM	1930	CB	GLU	259	1.118	43.513	63.304	1.00	37.56
ATOM	1931	CG	GLU	259	0.153	44.376	62.519	1.00	40.03
ATOM	1932	CD	GLU	259	-1.186	43.695	62.296	1.00	42.11
ATOM	1933	OE1	GLU	259	-2.009	44.237	61.534	1.00	45.27
ATOM	1934	OE2	GLU	259	-1.421	42.620	62.886	1.00	44.73
ATOM	1935	C	GLU	259	2.606	42.629	61.498	1.00	36.27
ATOM	1936	O	GLU	259	2.258	43.046	60.391	1.00	38.03
ATOM	1937	N	GLU	260	3.881	42.468	61.844	1.00	36.02
ATOM	1938	CA	GLU	260	4.976	42.780	60.930	1.00	36.42
ATOM	1939	CB	GLU	260	6.318	42.804	61.673	1.00	39.45
ATOM	1940	CG	GLU	260	6.264	43.354	63.087	1.00	43.52
ATOM	1941	CD	GLU	260	5.723	42.347	64.088	1.00	46.00
ATOM	1942	OE1	GLU	260	6.384	41.306	64.306	1.00	47.00
ATOM	1943	OE2	GLU	260	4.637	42.596	64.656	1.00	46.44
ATOM	1944	C	GLU	260	5.057	41.724	59.836	1.00	35.35
ATOM	1945	O	GLU	260	5.677	41.940	58.797	1.00	34.80
ATOM	1946	N	HIS	261	4.434	40.577	60.084	1.00	34.70
ATOM	1947	CA	HIS	261	4.448	39.471	59.132	1.00	34.15
ATOM	1948	CB	HIS	261	4.760	38.164	59.857	1.00	32.10
ATOM	1949	CG	HIS	261	6.004	38.213	60.687	1.00	31.51
ATOM	1950	CD2	HIS	261	6.200	38.019	62.013	1.00	29.70
ATOM	1951	ND1	HIS	261	7.249	38.460	60.149	1.00	30.98
ATOM	1952	CE1	HIS	261	8.158	38.411	61.106	1.00	28.80
ATOM	1953	NE2	HIS	261	7.548	38.145	62.246	1.00	28.77

ATOM	1954	C	HIS	261	3.110	39.330	58.424	1.00	35.41
ATOM	1955	O	HIS	261	2.912	38.408	57.631	1.00	35.55
ATOM	1956	N	SER	262	2.195	40.248	58.716	1.00	35.97
ATOM	1957	CA	SER	262	0.864	40.226	58.133	1.00	36.99
ATOM	1958	CB	SER	262	-0.173	40.483	59.227	1.00	35.31
ATOM	1959	OG	SER	262	-0.052	39.540	60.279	1.00	37.80
ATOM	1960	C	SER	262	0.703	41.254	57.014	1.00	38.31
ATOM	1961	O	SER	262	1.483	42.203	56.909	1.00	37.66
ATOM	1962	N	PHE	263	-0.312	41.050	56.178	1.00	40.01
ATOM	1963	CA	PHE	263	-0.600	41.955	55.066	1.00	41.82
ATOM	1964	CB	PHE	263	-0.434	41.243	53.718	1.00	42.58
ATOM	1965	CG	PHE	263	0.969	40.797	53.429	1.00	43.74
ATOM	1966	CD1	PHE	263	1.306	39.447	53.467	1.00	43.83
ATOM	1967	CD2	PHE	263	1.954	41.727	53.110	1.00	44.25
ATOM	1968	CE1	PHE	263	2.605	39.029	53.190	1.00	44.88
ATOM	1969	CE2	PHE	263	3.254	41.322	52.832	1.00	45.05
ATOM	1970	CZ	PHE	263	3.583	39.970	52.871	1.00	45.70
ATOM	1971	C	PHE	263	-2.026	42.482	55.169	1.00	42.76
ATOM	1972	O	PHE	263	-2.827	41.984	55.961	1.00	41.84
ATOM	1973	N	HIS	264	-2.333	43.491	54.359	1.00	44.75
ATOM	1974	CA	HIS	264	-3.661	44.102	54.336	1.00	47.39
ATOM	1975	CB	HIS	264	-3.719	45.285	55.303	1.00	48.50
ATOM	1976	CG	HIS	264	-3.536	44.897	56.735	1.00	49.55
ATOM	1977	CD2	HIS	264	-2.580	45.229	57.635	1.00	49.70
ATOM	1978	ND1	HIS	264	-4.394	44.037	57.386	1.00	49.75
ATOM	1979	CE1	HIS	264	-3.973	43.854	58.625	1.00	50.24
ATOM	1980	NE2	HIS	264	-2.874	44.565	58.801	1.00	49.74
ATOM	1981	C	HIS	264	-4.020	44.576	52.931	1.00	47.60
ATOM	1982	O	HIS	264	-5.144	44.275	52.483	1.00	48.91
ATOM	1983	OXT	HIS	264	-3.178	45.249	52.302	1.00	48.36
ATOM	1984	C1	KPL	265	5.087	27.716	51.358	1.00	41.50
ATOM	1985	C2	KPL	265	4.190	26.479	51.578	1.00	40.60
ATOM	1986	C3	KPL	265	4.654	25.755	52.846	1.00	39.94
ATOM	1987	C4	KPL	265	2.727	26.938	51.779	1.00	41.78
ATOM	1988	O1	KPL	265	2.243	27.630	50.619	1.00	43.47
ATOM	1989	C5	KPL	265	4.309	25.525	50.360	1.00	40.08
ATOM	1990	O2	KPL	265	3.322	25.239	49.713	1.00	38.16
ATOM	1991	C6	KPL	265	5.636	24.923	49.944	1.00	39.07
ATOM	1992	O3	KPL	265	6.653	25.170	50.562	1.00	40.08
ATOM	1993	O4	KPL	265	5.695	24.104	48.874	1.00	38.37
ATOM	1994	CB	MET	301	16.154	43.498	31.231	1.00	80.41
ATOM	1995	CG	MET	301	15.177	44.253	30.325	1.00	81.85
ATOM	1996	SD	MET	301	13.933	45.244	31.185	1.00	84.34
ATOM	1997	CE	MET	301	12.458	44.235	30.946	1.00	83.29
ATOM	1998	C	MET	301	14.844	42.880	33.290	1.00	78.13
ATOM	1999	O	MET	301	15.030	44.035	33.680	1.00	78.18
ATOM	2000	N	MET	301	14.641	41.532	31.184	1.00	78.62
ATOM	2001	CA	MET	301	15.549	42.343	32.045	1.00	78.92
ATOM	2002	N	LYS	302	14.042	42.021	33.914	1.00	76.63
ATOM	2003	CA	LYS	302	13.300	42.378	35.118	1.00	75.10
ATOM	2004	CB	LYS	302	11.941	42.982	34.740	1.00	75.44
ATOM	2005	CG	LYS	302	11.997	44.455	34.355	1.00	75.76
ATOM	2006	CD	LYS	302	12.271	45.330	35.571	1.00	75.67
ATOM	2007	CE	LYS	302	11.149	45.212	36.594	1.00	75.44
ATOM	2008	NZ	LYS	302	11.411	46.017	37.817	1.00	75.82
ATOM	2009	C	LYS	302	13.091	41.203	36.082	1.00	73.54
ATOM	2010	O	LYS	302	13.159	41.380	37.300	1.00	74.12
ATOM	2011	N	PRO	303	12.847	39.987	35.554	1.00	71.41
ATOM	2012	CD	PRO	303	12.659	38.812	36.425	1.00	70.80
ATOM	2013	CA	PRO	303	12.743	39.596	34.143	1.00	69.04
ATOM	2014	CB	PRO	303	12.752	38.074	34.213	1.00	69.91
ATOM	2015	CG	PRO	303	12.025	37.812	35.486	1.00	70.53
ATOM	2016	C	PRO	303	11.499	40.136	33.444	1.00	66.77
ATOM	2017	O	PRO	303	10.485	40.417	34.083	1.00	66.86
ATOM	2018	N	THR	304	11.588	40.276	32.127	1.00	64.02
ATOM	2019	CA	THR	304	10.474	40.781	31.337	1.00	61.28
ATOM	2020	CB	THR	304	10.830	40.818	29.842	1.00	61.21
ATOM	2021	OG1	THR	304	12.085	41.486	29.668	1.00	60.91
ATOM	2022	CG2	THR	304	9.756	41.560	29.062	1.00	60.88
ATOM	2023	C	THR	304	9.247	39.897	31.525	1.00	59.60
ATOM	2024	O	THR	304	9.357	38.673	31.563	1.00	59.05
ATOM	2025	N	THR	305	8.079	40.522	31.644	1.00	57.62
ATOM	2026	CA	THR	305	6.836	39.783	31.829	1.00	55.83
ATOM	2027	CB	THR	305	6.207	40.074	33.204	1.00	55.66
ATOM	2028	OG1	THR	305	5.873	41.465	33.293	1.00	55.27
ATOM	2029	CG2	THR	305	7.176	39.713	34.317	1.00	55.55
ATOM	2030	C	THR	305	5.810	40.133	30.758	1.00	55.15

ATOM	2031	O	THR	305	5.968	41.108	30.020	1.00	54.85
ATOM	2032	N	ILE	306	4.756	39.328	30.680	1.00	54.30
ATOM	2033	CA	ILE	306	3.698	39.543	29.704	1.00	54.29
ATOM	2034	CB	ILE	306	2.606	38.462	29.821	1.00	54.32
ATOM	2035	CG2	ILE	306	1.645	38.567	28.644	1.00	54.60
ATOM	2036	CG1	ILE	306	3.249	37.074	29.846	1.00	54.90
ATOM	2037	CD1	ILE	306	2.276	35.949	30.142	1.00	55.32
ATOM	2038	C	ILE	306	3.061	40.905	29.940	1.00	54.16
ATOM	2039	O	ILE	306	2.648	41.584	28.999	1.00	53.93
ATOM	2040	N	SER	307	2.990	41.299	31.208	1.00	53.96
ATOM	2041	CA	SER	307	2.402	42.579	31.588	1.00	54.22
ATOM	2042	CB	SER	307	2.523	42.777	33.101	1.00	54.20
ATOM	2043	OG	SER	307	1.851	41.744	33.801	1.00	55.29
ATOM	2044	C	SER	307	3.064	43.745	30.855	1.00	53.77
ATOM	2045	O	SER	307	2.383	44.653	30.379	1.00	54.19
ATOM	2046	N	LEU	308	4.392	43.712	30.770	1.00	53.02
ATOM	2047	CA	LEU	308	5.142	44.761	30.092	1.00	53.53
ATOM	2048	CB	LEU	308	6.630	44.411	30.049	1.00	53.40
ATOM	2049	CG	LEU	308	7.434	44.783	31.295	1.00	54.50
ATOM	2050	CD1	LEU	308	8.837	44.205	31.202	1.00	54.63
ATOM	2051	CD2	LEU	308	7.487	46.304	31.424	1.00	54.20
ATOM	2052	C	LEU	308	4.631	44.988	28.676	1.00	53.65
ATOM	2053	O	LEU	308	4.355	46.120	28.277	1.00	53.25
ATOM	2054	N	LEU	309	4.509	43.905	27.917	1.00	53.27
ATOM	2055	CA	LEU	309	4.024	43.990	26.549	1.00	53.60
ATOM	2056	CB	LEU	309	3.994	42.599	25.914	1.00	53.39
ATOM	2057	CG	LEU	309	5.336	41.872	25.803	1.00	53.15
ATOM	2058	CD1	LEU	309	5.108	40.469	25.271	1.00	52.80
ATOM	2059	CD2	LEU	309	6.272	42.646	24.890	1.00	52.50
ATOM	2060	C	LEU	309	2.625	44.598	26.530	1.00	53.99
ATOM	2061	O	LEU	309	2.312	45.429	25.677	1.00	53.60
ATOM	2062	N	GLN	310	1.790	44.182	27.479	1.00	54.06
ATOM	2063	CA	GLN	310	0.425	44.685	27.576	1.00	55.21
ATOM	2064	CB	GLN	310	-0.319	43.979	28.716	1.00	55.07
ATOM	2065	CG	GLN	310	-1.810	44.283	28.790	1.00	55.61
ATOM	2066	CD	GLN	310	-2.577	43.772	27.581	1.00	56.41
ATOM	2067	OE1	GLN	310	-2.395	44.254	26.463	1.00	56.40
ATOM	2068	NE2	GLN	310	-3.438	42.784	27.803	1.00	57.08
ATOM	2069	C	GLN	310	0.441	46.192	27.824	1.00	56.02
ATOM	2070	O	GLN	310	-0.263	46.949	27.153	1.00	56.00
ATOM	2071	N	LYS	311	1.252	46.620	28.786	1.00	56.45
ATOM	2072	CA	LYS	311	1.366	48.036	29.121	1.00	57.85
ATOM	2073	CB	LYS	311	2.361	48.236	30.266	1.00	58.44
ATOM	2074	CG	LYS	311	2.419	49.668	30.777	1.00	59.71
ATOM	2075	CD	LYS	311	3.851	50.156	30.939	1.00	60.00
ATOM	2076	CE	LYS	311	4.611	49.364	31.989	1.00	60.14
ATOM	2077	NZ	LYS	311	6.013	49.849	32.114	1.00	59.97
ATOM	2078	C	LYS	311	1.829	48.836	27.906	1.00	57.84
ATOM	2079	O	LYS	311	1.341	49.938	27.654	1.00	57.02
ATOM	2080	N	TYR	312	2.774	48.269	27.160	1.00	58.58
ATOM	2081	CA	TYR	312	3.316	48.913	25.970	1.00	59.79
ATOM	2082	CB	TYR	312	4.369	48.014	25.314	1.00	60.90
ATOM	2083	CG	TYR	312	5.642	47.839	26.119	1.00	62.17
ATOM	2084	CD1	TYR	312	6.639	46.960	25.695	1.00	62.63
ATOM	2085	CE1	TYR	312	7.818	46.799	26.424	1.00	63.39
ATOM	2086	CD2	TYR	312	5.855	48.557	27.297	1.00	62.71
ATOM	2087	CE2	TYR	312	7.030	48.404	28.033	1.00	63.56
ATOM	2088	CZ	TYR	312	8.006	47.523	27.590	1.00	63.51
ATOM	2089	OH	TYR	312	9.170	47.369	28.311	1.00	63.95
ATOM	2090	C	TYR	312	2.230	49.243	24.954	1.00	60.36
ATOM	2091	O	TYR	312	2.287	50.279	24.289	1.00	60.60
ATOM	2092	N	LYS	313	1.244	48.360	24.830	1.00	60.33
ATOM	2093	CA	LYS	313	0.155	48.579	23.887	1.00	60.59
ATOM	2094	CB	LYS	313	-0.720	47.324	23.773	1.00	59.68
ATOM	2095	CG	LYS	313	-1.855	47.466	22.766	1.00	59.36
ATOM	2096	CD	LYS	313	-2.535	46.141	22.466	1.00	57.36
ATOM	2097	CE	LYS	313	-3.587	46.318	21.377	1.00	57.43
ATOM	2098	NZ	LYS	313	-4.149	45.027	20.902	1.00	57.01
ATOM	2099	C	LYS	313	-0.689	49.771	24.330	1.00	60.98
ATOM	2100	O	LYS	313	-1.155	50.558	23.505	1.00	60.46
ATOM	2101	N	GLN	314	-0.876	49.903	25.638	1.00	61.89
ATOM	2102	CA	GLN	314	-1.656	51.004	26.186	1.00	63.46
ATOM	2103	CB	GLN	314	-1.968	50.747	27.661	1.00	63.34
ATOM	2104	CG	GLN	314	-2.812	49.507	27.898	1.00	64.06
ATOM	2105	CD	GLN	314	-3.090	49.266	29.366	1.00	64.42
ATOM	2106	OE1	GLN	314	-3.675	50.108	30.047	1.00	64.71
ATOM	2107	NE2	GLN	314	-2.672	48.110	29.862	1.00	64.63

ATOM	2108	C	GLN	314	-0.890	52.313	26.040	1.00	64.13
ATOM	2109	O	GLN	314	-1.399	53.383	26.378	1.00	65.09
ATOM	2110	N	GLU	315	0.336	52.217	25.533	1.00	64.44
ATOM	2111	CA	GLU	315	1.186	53.386	25.332	1.00	64.89
ATOM	2112	CB	GLU	315	2.476	53.254	26.149	1.00	65.03
ATOM	2113	CG	GLU	315	2.250	53.017	27.632	1.00	65.70
ATOM	2114	CD	GLU	315	3.548	52.910	28.407	1.00	65.91
ATOM	2115	OE1	GLU	315	4.414	52.101	28.013	1.00	66.19
ATOM	2116	OE2	GLU	315	3.702	53.631	29.414	1.00	66.44
ATOM	2117	C	GLU	315	1.532	53.541	23.855	1.00	64.71
ATOM	2118	O	GLU	315	2.323	54.408	23.480	1.00	64.82
ATOM	2119	N	LYS	316	0.938	52.692	23.023	1.00	64.19
ATOM	2120	CA	LYS	316	1.176	52.731	21.585	1.00	64.21
ATOM	2121	CB	LYS	316	0.604	54.024	20.997	1.00	64.07
ATOM	2122	CG	LYS	316	-0.840	54.306	21.387	1.00	64.10
ATOM	2123	CD	LYS	316	-1.794	53.259	20.837	1.00	63.85
ATOM	2124	CE	LYS	316	-3.220	53.514	21.306	1.00	63.79
ATOM	2125	NZ	LYS	316	-3.703	54.874	20.934	1.00	63.74
ATOM	2126	C	LYS	316	2.671	52.643	21.276	1.00	64.35
ATOM	2127	O	LYS	316	3.157	53.260	20.327	1.00	64.34
ATOM	2128	N	LYS	317	3.395	51.876	22.087	1.00	64.27
ATOM	2129	CA	LYS	317	4.835	51.702	21.907	1.00	63.70
ATOM	2130	CB	LYS	317	5.553	51.810	23.257	1.00	64.31
ATOM	2131	CG	LYS	317	7.061	51.596	23.178	1.00	65.23
ATOM	2132	CD	LYS	317	7.689	51.451	24.560	1.00	65.71
ATOM	2133	CE	LYS	317	7.548	52.720	25.387	1.00	66.37
ATOM	2134	NZ	LYS	317	8.145	52.562	26.744	1.00	66.68
ATOM	2135	C	LYS	317	5.157	50.349	21.273	1.00	62.73
ATOM	2136	O	LYS	317	5.221	49.331	21.964	1.00	62.19
ATOM	2137	N	ARG	318	5.361	50.342	19.959	1.00	61.20
ATOM	2138	CA	ARG	318	5.682	49.109	19.250	1.00	59.98
ATOM	2139	CB	ARG	318	5.760	49.370	17.743	1.00	60.40
ATOM	2140	CG	ARG	318	4.416	49.244	17.040	1.00	61.29
ATOM	2141	CD	ARG	318	4.469	49.737	15.604	1.00	61.24
ATOM	2142	NE	ARG	318	4.450	51.196	15.528	1.00	62.30
ATOM	2143	CZ	ARG	318	4.415	51.885	14.392	1.00	62.88
ATOM	2144	NH1	ARG	318	4.397	51.249	13.227	1.00	62.95
ATOM	2145	NH2	ARG	318	4.391	53.211	14.421	1.00	62.95
ATOM	2146	C	ARG	318	6.990	48.507	19.754	1.00	58.84
ATOM	2147	O	ARG	318	8.024	49.174	19.780	1.00	58.27
ATOM	2148	N	PHE	319	6.928	47.241	20.156	1.00	57.39
ATOM	2149	CA	PHE	319	8.089	46.530	20.677	1.00	55.69
ATOM	2150	CB	PHE	319	7.725	45.856	22.005	1.00	56.21
ATOM	2151	CG	PHE	319	6.465	45.036	21.945	1.00	56.77
ATOM	2152	CD1	PHE	319	6.465	43.768	21.368	1.00	56.74
ATOM	2153	CD2	PHE	319	5.270	45.543	22.448	1.00	56.37
ATOM	2154	CE1	PHE	319	5.291	43.018	21.294	1.00	57.23
ATOM	2155	CE2	PHE	319	4.092	44.803	22.379	1.00	56.83
ATOM	2156	CZ	PHE	319	4.101	43.539	21.801	1.00	56.54
ATOM	2157	C	PHE	319	8.632	45.497	19.692	1.00	54.04
ATOM	2158	O	PHE	319	7.932	45.063	18.776	1.00	53.79
ATOM	2159	N	ALA	320	9.887	45.106	19.890	1.00	51.83
ATOM	2160	CA	ALA	320	10.527	44.135	19.013	1.00	49.46
ATOM	2161	CB	ALA	320	11.880	44.665	18.562	1.00	49.67
ATOM	2162	C	ALA	320	10.695	42.773	19.676	1.00	47.51
ATOM	2163	O	ALA	320	10.899	42.677	20.886	1.00	47.41
ATOM	2164	N	THR	321	10.607	41.721	18.869	1.00	45.20
ATOM	2165	CA	THR	321	10.755	40.355	19.357	1.00	43.60
ATOM	2166	CB	THR	321	9.383	39.692	19.579	1.00	43.59
ATOM	2167	OG1	THR	321	8.618	40.472	20.506	1.00	44.19
ATOM	2168	CG2	THR	321	9.553	38.293	20.132	1.00	44.04
ATOM	2169	C	THR	321	11.536	39.542	18.331	1.00	41.76
ATOM	2170	O	THR	321	11.456	39.804	17.130	1.00	41.89
ATOM	2171	N	ILE	322	12.290	38.551	18.798	1.00	40.55
ATOM	2172	CA	ILE	322	13.077	37.729	17.887	1.00	38.74
ATOM	2173	CB	ILE	322	14.479	38.338	17.688	1.00	39.69
ATOM	2174	CG2	ILE	322	15.310	38.150	18.954	1.00	38.21
ATOM	2175	CG1	ILE	322	15.160	37.692	16.479	1.00	39.62
ATOM	2176	CD1	ILE	322	16.436	38.388	16.055	1.00	40.64
ATOM	2177	C	ILE	322	13.220	36.289	18.375	1.00	37.51
ATOM	2178	O	ILE	322	13.037	36.005	19.557	1.00	36.20
ATOM	2179	N	THR	323	13.544	35.381	17.458	1.00	35.23
ATOM	2180	CA	THR	323	13.718	33.980	17.817	1.00	33.67
ATOM	2181	CB	THR	323	13.381	33.034	16.640	1.00	33.56
ATOM	2182	OG1	THR	323	14.346	33.202	15.596	1.00	33.89
ATOM	2183	CG2	THR	323	11.996	33.331	16.096	1.00	34.18
ATOM	2184	C	THR	323	15.158	33.717	18.244	1.00	31.77

ATOM	2185	O	THR	323	16.071	34.459	17.879	1.00	30.93
ATOM	2186	N	ALA	324	15.345	32.661	19.033	1.00	30.73
ATOM	2187	CA	ALA	324	16.662	32.257	19.518	1.00	27.91
ATOM	2188	CB	ALA	324	17.022	33.025	20.783	1.00	29.81
ATOM	2189	C	ALA	324	16.618	30.758	19.800	1.00	28.38
ATOM	2190	O	ALA	324	15.618	30.247	20.312	1.00	26.39
ATOM	2191	N	TYR	325	17.703	30.059	19.472	1.00	27.03
ATOM	2192	CA	TYR	325	17.759	28.616	19.663	1.00	27.26
ATOM	2193	CB	TYR	325	17.603	27.909	18.315	1.00	25.23
ATOM	2194	CG	TYR	325	16.645	28.596	17.372	1.00	24.94
ATOM	2195	CD1	TYR	325	17.109	29.501	16.417	1.00	23.93
ATOM	2196	CE1	TYR	325	16.234	30.125	15.533	1.00	25.04
ATOM	2197	CD2	TYR	325	15.275	28.336	17.427	1.00	23.23
ATOM	2198	CE2	TYR	325	14.392	28.954	16.552	1.00	22.55
ATOM	2199	CZ	TYR	325	14.876	29.845	15.606	1.00	24.69
ATOM	2200	OH	TYR	325	14.003	30.434	14.723	1.00	25.39
ATOM	2201	C	TYR	325	19.038	28.131	20.333	1.00	27.49
ATOM	2202	O	TYR	325	19.287	26.931	20.400	1.00	28.39
ATOM	2203	N	ASP	326	19.854	29.052	20.827	1.00	27.48
ATOM	2204	CA	ASP	326	21.082	28.647	21.488	1.00	27.27
ATOM	2205	CB	ASP	326	22.182	28.392	20.453	1.00	26.92
ATOM	2206	CG	ASP	326	22.645	29.661	19.767	1.00	27.37
ATOM	2207	OD1	ASP	326	23.394	30.439	20.397	1.00	28.68
ATOM	2208	OD2	ASP	326	22.253	29.881	18.603	1.00	28.94
ATOM	2209	C	ASP	326	21.541	29.677	22.510	1.00	28.59
ATOM	2210	O	ASP	326	20.991	30.773	22.593	1.00	30.01
ATOM	2211	N	TYR	327	22.547	29.302	23.289	1.00	28.76
ATOM	2212	CA	TYR	327	23.106	30.152	24.332	1.00	30.47
ATOM	2213	CB	TYR	327	24.203	29.385	25.073	1.00	31.91
ATOM	2214	CG	TYR	327	24.997	30.215	26.057	1.00	35.27
ATOM	2215	CD1	TYR	327	24.465	30.562	27.300	1.00	36.04
ATOM	2216	CE1	TYR	327	25.196	31.331	28.209	1.00	37.29
ATOM	2217	CD2	TYR	327	26.281	30.658	25.744	1.00	35.38
ATOM	2218	CE2	TYR	327	27.018	31.427	26.643	1.00	36.93
ATOM	2219	CZ	TYR	327	26.472	31.759	27.869	1.00	37.24
ATOM	2220	OH	TYR	327	27.198	32.521	28.755	1.00	37.97
ATOM	2221	C	TYR	327	23.677	31.461	23.793	1.00	30.48
ATOM	2222	O	TYR	327	23.216	32.543	24.148	1.00	29.09
ATOM	2223	N	SER	328	24.685	31.347	22.935	1.00	31.30
ATOM	2224	CA	SER	328	25.350	32.509	22.364	1.00	31.80
ATOM	2225	CB	SER	328	26.252	32.077	21.208	1.00	31.10
ATOM	2226	OG	SER	328	27.287	31.231	21.685	1.00	31.34
ATOM	2227	C	SER	328	24.411	33.620	21.905	1.00	33.46
ATOM	2228	O	SER	328	24.409	34.712	22.478	1.00	35.08
ATOM	2229	N	PHE	329	23.608	33.353	20.882	1.00	33.75
ATOM	2230	CA	PHE	329	22.695	34.373	20.380	1.00	35.28
ATOM	2231	CB	PHE	329	21.957	33.876	19.134	1.00	36.14
ATOM	2232	CG	PHE	329	22.794	33.915	17.884	1.00	37.89
ATOM	2233	CD1	PHE	329	23.396	32.760	17.391	1.00	37.32
ATOM	2234	CD2	PHE	329	22.995	35.117	17.207	1.00	37.37
ATOM	2235	CE1	PHE	329	24.185	32.803	16.243	1.00	37.40
ATOM	2236	CE2	PHE	329	23.781	35.169	16.061	1.00	37.67
ATOM	2237	CZ	PHE	329	24.378	34.011	15.576	1.00	38.05
ATOM	2238	C	PHE	329	21.691	34.872	21.415	1.00	36.35
ATOM	2239	O	PHE	329	21.294	36.040	21.387	1.00	35.47
ATOM	2240	N	ALA	330	21.282	33.997	22.328	1.00	36.19
ATOM	2241	CA	ALA	330	20.329	34.382	23.363	1.00	37.22
ATOM	2242	CB	ALA	330	19.929	33.159	24.187	1.00	37.12
ATOM	2243	C	ALA	330	20.930	35.453	24.275	1.00	38.43
ATOM	2244	O	ALA	330	20.284	36.456	24.587	1.00	36.62
ATOM	2245	N	LYS	331	22.169	35.224	24.703	1.00	40.16
ATOM	2246	CA	LYS	331	22.877	36.150	25.583	1.00	42.64
ATOM	2247	CB	LYS	331	24.239	35.560	25.970	1.00	43.34
ATOM	2248	CG	LYS	331	25.056	36.401	26.947	1.00	45.59
ATOM	2249	CD	LYS	331	24.494	36.320	28.362	1.00	48.66
ATOM	2250	CE	LYS	331	25.388	37.032	29.378	1.00	48.88
ATOM	2251	NZ	LYS	331	25.439	38.510	29.177	1.00	50.22
ATOM	2252	C	LYS	331	23.084	37.497	24.892	1.00	42.88
ATOM	2253	O	LYS	331	23.000	38.554	25.520	1.00	44.09
ATOM	2254	N	LEU	332	23.351	37.446	23.594	1.00	43.08
ATOM	2255	CA	LEU	332	23.588	38.645	22.807	1.00	42.72
ATOM	2256	CB	LEU	332	24.020	38.249	21.393	1.00	42.60
ATOM	2257	CG	LEU	332	24.502	39.350	20.447	1.00	42.52
ATOM	2258	CD1	LEU	332	25.490	38.763	19.448	1.00	41.43
ATOM	2259	CD2	LEU	332	23.315	39.981	19.740	1.00	42.66
ATOM	2260	C	LEU	332	22.372	39.565	22.754	1.00	43.40
ATOM	2261	O	LEU	332	22.488	40.770	22.980	1.00	42.27

ATOM	2262	N	PHE	333	21.204	39.004	22.463	1.00	42.78
ATOM	2263	CA	PHE	333	19.997	39.814	22.387	1.00	43.66
ATOM	2264	CB	PHE	333	18.818	38.983	21.880	1.00	43.29
ATOM	2265	CG	PHE	333	19.080	38.289	20.580	1.00	43.11
ATOM	2266	CD1	PHE	333	19.750	38.942	19.548	1.00	42.14
ATOM	2267	CD2	PHE	333	18.640	36.986	20.379	1.00	42.92
ATOM	2268	CE1	PHE	333	19.977	38.306	18.334	1.00	42.67
ATOM	2269	CE2	PHE	333	18.860	36.341	19.169	1.00	42.88
ATOM	2270	CZ	PHE	333	19.531	37.001	18.141	1.00	42.87
ATOM	2271	C	PHE	333	19.651	40.393	23.747	1.00	44.42
ATOM	2272	O	PHE	333	19.189	41.530	23.851	1.00	43.85
ATOM	2273	N	ALA	334	19.881	39.600	24.789	1.00	45.14
ATOM	2274	CA	ALA	334	19.592	40.017	26.154	1.00	45.59
ATOM	2275	CB	ALA	334	19.912	38.884	27.121	1.00	45.78
ATOM	2276	C	ALA	334	20.376	41.263	26.538	1.00	45.65
ATOM	2277	O	ALA	334	19.837	42.179	27.162	1.00	46.18
ATOM	2278	N	ASP	335	21.649	41.296	26.160	1.00	45.92
ATOM	2279	CA	ASP	335	22.509	42.429	26.482	1.00	45.71
ATOM	2280	CB	ASP	335	23.977	42.019	26.388	1.00	44.57
ATOM	2281	CG	ASP	335	24.277	40.767	27.177	1.00	43.56
ATOM	2282	OD1	ASP	335	23.536	40.484	28.141	1.00	43.70
ATOM	2283	OD2	ASP	335	25.258	40.071	26.840	1.00	43.87
ATOM	2284	C	ASP	335	22.262	43.629	25.585	1.00	46.23
ATOM	2285	O	ASP	335	22.912	44.660	25.733	1.00	46.45
ATOM	2286	N	GLU	336	21.324	43.491	24.654	1.00	47.36
ATOM	2287	CA	GLU	336	20.999	44.580	23.741	1.00	49.00
ATOM	2288	CB	GLU	336	21.063	44.099	22.290	1.00	49.86
ATOM	2289	CG	GLU	336	22.459	43.725	21.828	1.00	51.33
ATOM	2290	CD	GLU	336	23.450	44.861	22.006	1.00	52.76
ATOM	2291	OE1	GLU	336	23.232	45.943	21.418	1.00	53.76
ATOM	2292	OE2	GLU	336	24.443	44.672	22.741	1.00	53.33
ATOM	2293	C	GLU	336	19.620	45.156	24.026	1.00	49.27
ATOM	2294	O	GLU	336	19.171	46.076	23.341	1.00	49.79
ATOM	2295	N	GLY	337	18.948	44.608	25.033	1.00	49.15
ATOM	2296	CA	GLY	337	17.627	45.094	25.386	1.00	49.61
ATOM	2297	C	GLY	337	16.497	44.169	24.981	1.00	50.11
ATOM	2298	O	GLY	337	15.372	44.318	25.458	1.00	49.98
ATOM	2299	N	LEU	338	16.788	43.219	24.095	1.00	50.32
ATOM	2300	CA	LEU	338	15.779	42.267	23.637	1.00	50.74
ATOM	2301	CB	LEU	338	16.108	41.781	22.223	1.00	50.90
ATOM	2302	CG	LEU	338	15.750	42.728	21.079	1.00	51.60
ATOM	2303	CD1	LEU	338	16.237	42.143	19.763	1.00	52.47
ATOM	2304	CD2	LEU	338	14.243	42.943	21.044	1.00	52.43
ATOM	2305	C	LEU	338	15.674	41.073	24.575	1.00	50.23
ATOM	2306	O	LEU	338	16.430	40.109	24.459	1.00	50.85
ATOM	2307	N	ASN	339	14.729	41.146	25.506	1.00	49.73
ATOM	2308	CA	ASN	339	14.514	40.076	26.469	1.00	48.47
ATOM	2309	CB	ASN	339	14.536	40.647	27.889	1.00	50.75
ATOM	2310	CG	ASN	339	15.942	40.986	28.359	1.00	52.34
ATOM	2311	OD1	ASN	339	16.706	40.105	28.759	1.00	52.97
ATOM	2312	ND2	ASN	339	16.293	42.267	28.301	1.00	52.70
ATOM	2313	C	ASN	339	13.194	39.355	26.204	1.00	46.90
ATOM	2314	O	ASN	339	12.490	38.961	27.129	1.00	46.89
ATOM	2315	N	VAL	340	12.865	39.195	24.927	1.00	44.67
ATOM	2316	CA	VAL	340	11.645	38.509	24.518	1.00	43.58
ATOM	2317	CB	VAL	340	10.563	39.501	24.072	1.00	43.60
ATOM	2318	CG1	VAL	340	9.272	38.758	23.779	1.00	43.89
ATOM	2319	CG2	VAL	340	10.343	40.550	25.147	1.00	43.92
ATOM	2320	C	VAL	340	11.991	37.597	23.345	1.00	42.70
ATOM	2321	O	VAL	340	11.806	37.959	22.182	1.00	42.88
ATOM	2322	N	MET	341	12.496	36.410	23.667	1.00	41.15
ATOM	2323	CA	MET	341	12.910	35.436	22.664	1.00	37.91
ATOM	2324	CB	MET	341	14.278	34.874	23.056	1.00	38.70
ATOM	2325	CG	MET	341	15.403	35.893	22.946	1.00	38.98
ATOM	2326	SD	MET	341	16.816	35.520	23.975	1.00	43.33
ATOM	2327	CE	MET	341	16.743	36.882	25.141	1.00	41.65
ATOM	2328	C	MET	341	11.910	34.299	22.461	1.00	36.58
ATOM	2329	O	MET	341	11.208	33.895	23.389	1.00	34.24
ATOM	2330	N	LEU	342	11.858	33.784	21.236	1.00	33.02
ATOM	2331	CA	LEU	342	10.949	32.697	20.904	1.00	31.78
ATOM	2332	CB	LEU	342	9.873	33.204	19.930	1.00	33.59
ATOM	2333	CG	LEU	342	8.868	32.254	19.260	1.00	35.82
ATOM	2334	CD1	LEU	342	9.491	31.606	18.041	1.00	36.45
ATOM	2335	CD2	LEU	342	8.380	31.210	20.256	1.00	35.85
ATOM	2336	C	LEU	342	11.671	31.485	20.317	1.00	28.89
ATOM	2337	O	LEU	342	12.390	31.594	19.324	1.00	28.45
ATOM	2338	N	VAL	343	11.494	30.334	20.957	1.00	25.63

ATOM	2339	CA	VAL	343	12.099	29.093	20.483	1.00	24.23
ATOM	2340	CB	VAL	343	12.543	28.193	21.664	1.00	24.85
ATOM	2341	CG1	VAL	343	13.222	26.942	21.135	1.00	24.17
ATOM	2342	CG2	VAL	343	13.490	28.960	22.585	1.00	24.85
ATOM	2343	C	VAL	343	11.001	28.393	19.685	1.00	23.87
ATOM	2344	O	VAL	343	10.253	27.575	20.220	1.00	23.67
ATOM	2345	N	GLY	344	10.900	28.737	18.404	1.00	23.68
ATOM	2346	CA	GLY	344	9.871	28.152	17.562	1.00	24.64
ATOM	2347	C	GLY	344	10.312	26.961	16.736	1.00	23.93
ATOM	2348	O	GLY	344	11.507	26.689	16.621	1.00	22.71
ATOM	2349	N	ASP	345	9.340	26.253	16.161	1.00	23.97
ATOM	2350	CA	ASP	345	9.625	25.087	15.342	1.00	24.30
ATOM	2351	CB	ASP	345	8.342	24.306	15.022	1.00	26.36
ATOM	2352	CG	ASP	345	7.201	25.196	14.563	1.00	26.89
ATOM	2353	OD1	ASP	345	7.454	26.315	14.068	1.00	27.29
ATOM	2354	OD2	ASP	345	6.042	24.759	14.691	1.00	28.98
ATOM	2355	C	ASP	345	10.337	25.464	14.051	1.00	25.12
ATOM	2356	O	ASP	345	10.707	24.597	13.260	1.00	25.35
ATOM	2357	N	SER	346	10.538	26.761	13.840	1.00	24.45
ATOM	2358	CA	SER	346	11.237	27.218	12.649	1.00	23.43
ATOM	2359	CB	SER	346	11.273	28.749	12.603	1.00	23.92
ATOM	2360	OG	SER	346	11.844	29.276	13.786	1.00	27.17
ATOM	2361	C	SER	346	12.655	26.655	12.705	1.00	23.97
ATOM	2362	O	SER	346	13.330	26.533	11.685	1.00	24.80
ATOM	2363	N	LEU	347	13.090	26.295	13.909	1.00	22.27
ATOM	2364	CA	LEU	347	14.417	25.730	14.106	1.00	22.38
ATOM	2365	CB	LEU	347	14.664	25.473	15.601	1.00	22.34
ATOM	2366	CG	LEU	347	13.793	24.461	16.355	1.00	23.80
ATOM	2367	CD1	LEU	347	14.374	23.052	16.197	1.00	21.37
ATOM	2368	CD2	LEU	347	13.746	24.838	17.831	1.00	22.86
ATOM	2369	C	LEU	347	14.548	24.426	13.313	1.00	21.48
ATOM	2370	O	LEU	347	15.653	23.970	13.033	1.00	22.19
ATOM	2371	N	GLY	348	13.413	23.835	12.955	1.00	22.76
ATOM	2372	CA	GLY	348	13.439	22.601	12.196	1.00	23.34
ATOM	2373	C	GLY	348	14.005	22.837	10.814	1.00	24.59
ATOM	2374	O	GLY	348	14.534	21.927	10.179	1.00	24.89
ATOM	2375	N	MET	349	13.908	24.078	10.351	1.00	25.57
ATOM	2376	CA	MET	349	14.408	24.431	9.034	1.00	27.75
ATOM	2377	CB	MET	349	13.349	25.255	8.290	1.00	28.73
ATOM	2378	CG	MET	349	12.062	24.479	8.029	1.00	32.37
ATOM	2379	SD	MET	349	10.740	25.431	7.229	1.00	34.95
ATOM	2380	CE	MET	349	11.415	25.598	5.580	1.00	34.51
ATOM	2381	C	MET	349	15.729	25.191	9.118	1.00	27.11
ATOM	2382	O	MET	349	16.700	24.839	8.448	1.00	26.59
ATOM	2383	N	THR	350	15.774	26.205	9.975	1.00	27.84
ATOM	2384	CA	THR	350	16.965	27.031	10.133	1.00	28.17
ATOM	2385	CB	THR	350	16.594	28.375	10.805	1.00	31.28
ATOM	2386	OG1	THR	350	17.720	29.258	10.770	1.00	34.87
ATOM	2387	CG2	THR	350	16.181	28.151	12.249	1.00	31.41
ATOM	2388	C	THR	350	18.098	26.370	10.926	1.00	28.30
ATOM	2389	O	THR	350	19.275	26.666	10.713	1.00	27.38
ATOM	2390	N	VAL	351	17.747	25.470	11.836	1.00	26.54
ATOM	2391	CA	VAL	351	18.750	24.792	12.648	1.00	26.15
ATOM	2392	CB	VAL	351	18.337	24.800	14.136	1.00	27.12
ATOM	2393	CG1	VAL	351	19.340	24.010	14.966	1.00	26.33
ATOM	2394	CG2	VAL	351	18.238	26.239	14.633	1.00	26.84
ATOM	2395	C	VAL	351	18.995	23.347	12.214	1.00	25.31
ATOM	2396	O	VAL	351	20.138	22.943	12.023	1.00	23.95
ATOM	2397	N	GLN	352	17.920	22.574	12.064	1.00	24.36
ATOM	2398	CA	GLN	352	18.036	21.169	11.673	1.00	23.55
ATOM	2399	CB	GLN	352	16.839	20.370	12.200	1.00	23.18
ATOM	2400	CG	GLN	352	16.508	20.642	13.670	1.00	21.36
ATOM	2401	CD	GLN	352	15.365	19.785	14.186	1.00	20.35
ATOM	2402	OE1	GLN	352	14.468	19.417	13.434	1.00	19.01
ATOM	2403	NE2	GLN	352	15.387	19.476	15.484	1.00	18.25
ATOM	2404	C	GLN	352	18.156	20.972	10.159	1.00	24.30
ATOM	2405	O	GLN	352	18.727	19.982	9.703	1.00	24.86
ATOM	2406	N	GLY	353	17.602	21.900	9.385	1.00	24.94
ATOM	2407	CA	GLY	353	17.688	21.796	7.938	1.00	26.08
ATOM	2408	C	GLY	353	16.607	20.985	7.245	1.00	28.43
ATOM	2409	O	GLY	353	16.866	20.335	6.229	1.00	29.40
ATOM	2410	N	HIS	354	15.393	21.020	7.781	1.00	28.07
ATOM	2411	CA	HIS	354	14.280	20.291	7.192	1.00	29.87
ATOM	2412	CB	HIS	354	13.328	19.807	8.286	1.00	28.92
ATOM	2413	CG	HIS	354	13.906	18.740	9.161	1.00	28.40
ATOM	2414	CD2	HIS	354	14.175	18.722	10.488	1.00	28.09
ATOM	2415	ND1	HIS	354	14.272	17.501	8.679	1.00	28.16



ATOM	2416	CE1	HIS	354	14.741	16.766	9.671	1.00	28.40
ATOM	2417	NE2	HIS	354	14.693	17.484	10.780	1.00	27.51
ATOM	2418	C	HIS	354	13.520	21.162	6.198	1.00	31.29
ATOM	2419	O	HIS	354	13.625	22.389	6.227	1.00	31.35
ATOM	2420	N	ASP	355	12.755	20.518	5.320	1.00	33.89
ATOM	2421	CA	ASP	355	11.972	21.224	4.305	1.00	34.61
ATOM	2422	CB	ASP	355	11.479	20.231	3.245	1.00	38.73
ATOM	2423	CG	ASP	355	10.673	19.085	3.842	1.00	41.27
ATOM	2424	OD1	ASP	355	9.606	19.349	4.430	1.00	43.21
ATOM	2425	OD2	ASP	355	11.109	17.916	3.719	1.00	44.12
ATOM	2426	C	ASP	355	10.786	21.953	4.928	1.00	34.04
ATOM	2427	O	ASP	355	10.248	22.898	4.348	1.00	33.77
ATOM	2428	N	SER	356	10.382	21.503	6.111	1.00	31.25
ATOM	2429	CA	SER	356	9.268	22.106	6.832	1.00	29.42
ATOM	2430	CB	SER	356	7.963	21.353	6.531	1.00	29.55
ATOM	2431	OG	SER	356	7.976	20.046	7.086	1.00	30.40
ATOM	2432	C	SER	356	9.564	22.058	8.330	1.00	26.94
ATOM	2433	O	SER	356	10.642	21.627	8.739	1.00	26.83
ATOM	2434	N	THR	357	8.612	22.498	9.145	1.00	26.28
ATOM	2435	CA	THR	357	8.803	22.491	10.592	1.00	24.80
ATOM	2436	CB	THR	357	8.205	23.749	11.254	1.00	23.50
ATOM	2437	OG1	THR	357	6.780	23.735	11.093	1.00	25.56
ATOM	2438	CG2	THR	357	8.777	25.017	10.630	1.00	26.01
ATOM	2439	C	THR	357	8.141	21.288	11.252	1.00	22.76
ATOM	2440	O	THR	357	8.262	21.106	12.458	1.00	21.76
ATOM	2441	N	LEU	358	7.449	20.466	10.470	1.00	21.94
ATOM	2442	CA	LEU	358	6.757	19.306	11.036	1.00	20.73
ATOM	2443	CB	LEU	358	5.987	18.553	9.946	1.00	22.06
ATOM	2444	CG	LEU	358	4.696	19.207	9.447	1.00	22.23
ATOM	2445	CD1	LEU	358	5.036	20.431	8.609	1.00	24.54
ATOM	2446	CD2	LEU	358	3.901	18.213	8.623	1.00	21.61
ATOM	2447	C	LEU	358	7.620	18.311	11.807	1.00	19.69
ATOM	2448	O	LEU	358	7.169	17.732	12.792	1.00	19.43
ATOM	2449	N	PRO	359	8.861	18.077	11.359	1.00	19.49
ATOM	2450	CD	PRO	359	9.445	18.471	10.067	1.00	20.99
ATOM	2451	CA	PRO	359	9.738	17.130	12.057	1.00	19.78
ATOM	2452	CB	PRO	359	10.917	16.974	11.095	1.00	21.23
ATOM	2453	CG	PRO	359	10.905	18.271	10.325	1.00	25.57
ATOM	2454	C	PRO	359	10.184	17.534	13.461	1.00	18.27
ATOM	2455	O	PRO	359	10.685	16.705	14.225	1.00	16.56
ATOM	2456	N	VAL	360	9.993	18.800	13.806	1.00	17.80
ATOM	2457	CA	VAL	360	10.397	19.290	15.116	1.00	17.74
ATOM	2458	CB	VAL	360	10.204	20.816	15.226	1.00	16.25
ATOM	2459	CG1	VAL	360	10.676	21.301	16.582	1.00	15.89
ATOM	2460	CG2	VAL	360	10.967	21.508	14.114	1.00	16.99
ATOM	2461	C	VAL	360	9.589	18.608	16.205	1.00	17.81
ATOM	2462	O	VAL	360	8.362	18.577	16.152	1.00	16.42
ATOM	2463	N	THR	361	10.280	18.056	17.195	1.00	18.83
ATOM	2464	CA	THR	361	9.594	17.376	18.283	1.00	19.94
ATOM	2465	CB	THR	361	10.216	15.983	18.540	1.00	23.20
ATOM	2466	OG1	THR	361	10.537	15.352	17.289	1.00	26.54
ATOM	2467	CG2	THR	361	9.221	15.091	19.257	1.00	27.25
ATOM	2468	C	THR	361	9.656	18.195	19.571	1.00	19.28
ATOM	2469	O	THR	361	10.442	19.138	19.679	1.00	17.95
ATOM	2470	N	VAL	362	8.820	17.841	20.544	1.00	17.01
ATOM	2471	CA	VAL	362	8.807	18.545	21.827	1.00	17.54
ATOM	2472	CB	VAL	362	7.753	17.930	22.787	1.00	16.12
ATOM	2473	CG1	VAL	362	7.835	18.598	24.156	1.00	15.29
ATOM	2474	CG2	VAL	362	6.352	18.108	22.198	1.00	16.25
ATOM	2475	C	VAL	362	10.202	18.463	22.450	1.00	16.96
ATOM	2476	O	VAL	362	10.703	19.445	22.989	1.00	16.86
ATOM	2477	N	ALA	363	10.829	17.293	22.351	1.00	17.98
ATOM	2478	CA	ALA	363	12.164	17.088	22.903	1.00	18.14
ATOM	2479	CB	ALA	363	12.638	15.659	22.632	1.00	20.14
ATOM	2480	C	ALA	363	13.161	18.086	22.327	1.00	18.21
ATOM	2481	O	ALA	363	14.042	18.574	23.043	1.00	17.54
ATOM	2482	N	ASP	364	13.029	18.378	21.032	1.00	16.91
ATOM	2483	CA	ASP	364	13.923	19.334	20.371	1.00	16.57
ATOM	2484	CB	ASP	364	13.661	19.410	18.854	1.00	15.99
ATOM	2485	CG	ASP	364	13.951	18.099	18.123	1.00	17.52
ATOM	2486	OD1	ASP	364	14.817	17.312	18.572	1.00	15.98
ATOM	2487	OD2	ASP	364	13.311	17.873	17.072	1.00	19.08
ATOM	2488	C	ASP	364	13.691	20.720	20.974	1.00	15.38
ATOM	2489	O	ASP	364	14.638	21.421	21.320	1.00	17.32
ATOM	2490	N	ILE	365	12.427	21.115	21.088	1.00	17.64
ATOM	2491	CA	ILE	365	12.092	22.422	21.651	1.00	16.80
ATOM	2492	CB	ILE	365	10.561	22.646	21.717	1.00	16.19

ATOM	2493	CG2	ILE	365	10.265	23.986	22.395	1.00	19.39
ATOM	2494	CG1	ILE	365	9.946	22.599	20.310	1.00	16.26
ATOM	2495	CD1	ILE	365	10.399	23.713	19.379	1.00	17.28
ATOM	2496	C	ILE	365	12.646	22.560	23.066	1.00	16.75
ATOM	2497	O	ILE	365	13.217	23.596	23.423	1.00	15.83
ATOM	2498	N	ALA	366	12.474	21.518	23.878	1.00	15.24
ATOM	2499	CA	ALA	366	12.959	21.549	25.260	1.00	15.66
ATOM	2500	CB	ALA	366	12.533	20.278	25.999	1.00	15.05
ATOM	2501	C	ALA	366	14.474	21.688	25.292	1.00	15.90
ATOM	2502	O	ALA	366	15.036	22.363	26.161	1.00	16.01
ATOM	2503	N	TYR	367	15.136	21.040	24.341	1.00	15.21
ATOM	2504	CA	TYR	367	16.596	21.093	24.247	1.00	15.10
ATOM	2505	CB	TYR	367	17.082	20.191	23.106	1.00	14.11
ATOM	2506	CG	TYR	367	18.577	20.270	22.837	1.00	15.47
ATOM	2507	CD1	TYR	367	19.504	19.782	23.755	1.00	15.21
ATOM	2508	CE1	TYR	367	20.881	19.830	23.492	1.00	16.91
ATOM	2509	CD2	TYR	367	19.060	20.815	21.651	1.00	17.33
ATOM	2510	CE2	TYR	367	20.428	20.868	21.382	1.00	17.98
ATOM	2511	CZ	TYR	367	21.330	20.371	22.306	1.00	16.29
ATOM	2512	OH	TYR	367	22.681	20.386	22.013	1.00	15.79
ATOM	2513	C	TYR	367	17.051	22.525	23.986	1.00	16.84
ATOM	2514	O	TYR	367	17.918	23.063	24.688	1.00	17.12
ATOM	2515	N	HIS	368	16.467	23.141	22.965	1.00	17.61
ATOM	2516	CA	HIS	368	16.831	24.511	22.611	1.00	19.23
ATOM	2517	CB	HIS	368	16.277	24.847	21.220	1.00	18.64
ATOM	2518	CG	HIS	368	16.970	24.112	20.114	1.00	19.41
ATOM	2519	CD2	HIS	368	16.608	23.014	19.409	1.00	19.84
ATOM	2520	ND1	HIS	368	18.241	24.438	19.690	1.00	20.14
ATOM	2521	CE1	HIS	368	18.633	23.570	18.775	1.00	20.20
ATOM	2522	NE2	HIS	368	17.662	22.694	18.587	1.00	20.30
ATOM	2523	C	HIS	368	16.360	25.516	23.661	1.00	20.01
ATOM	2524	O	HIS	368	17.047	26.500	23.936	1.00	21.66
ATOM	2525	N	THR	369	15.202	25.258	24.259	1.00	19.85
ATOM	2526	CA	THR	369	14.677	26.143	25.289	1.00	21.15
ATOM	2527	CB	THR	369	13.305	25.659	25.796	1.00	21.21
ATOM	2528	OG1	THR	369	12.336	25.804	24.750	1.00	22.15
ATOM	2529	CG2	THR	369	12.860	26.466	27.012	1.00	21.16
ATOM	2530	C	THR	369	15.634	26.241	26.474	1.00	22.56
ATOM	2531	O	THR	369	15.905	27.338	26.974	1.00	23.65
ATOM	2532	N	ALA	370	16.154	25.100	26.918	1.00	21.27
ATOM	2533	CA	ALA	370	17.078	25.078	28.051	1.00	23.22
ATOM	2534	CB	ALA	370	17.481	23.640	28.372	1.00	22.74
ATOM	2535	C	ALA	370	18.322	25.913	27.752	1.00	24.33
ATOM	2536	O	ALA	370	18.775	26.694	28.593	1.00	24.36
ATOM	2537	N	ALA	371	18.862	25.744	26.548	1.00	24.54
ATOM	2538	CA	ALA	371	20.050	26.480	26.115	1.00	26.15
ATOM	2539	CB	ALA	371	20.465	26.019	24.719	1.00	24.54
ATOM	2540	C	ALA	371	19.795	27.986	26.109	1.00	27.22
ATOM	2541	O	ALA	371	20.610	28.766	26.601	1.00	29.91
ATOM	2542	N	VAL	372	18.662	28.387	25.543	1.00	27.69
ATOM	2543	CA	VAL	372	18.299	29.796	25.473	1.00	28.62
ATOM	2544	CB	VAL	372	16.975	29.992	24.699	1.00	29.37
ATOM	2545	CG1	VAL	372	16.541	31.448	24.749	1.00	28.12
ATOM	2546	CG2	VAL	372	17.154	29.546	23.257	1.00	29.50
ATOM	2547	C	VAL	372	18.153	30.393	26.868	1.00	29.28
ATOM	2548	O	VAL	372	18.633	31.499	27.130	1.00	28.13
ATOM	2549	N	ARG	373	17.496	29.661	27.762	1.00	29.17
ATOM	2550	CA	ARG	373	17.299	30.138	29.128	1.00	29.87
ATOM	2551	CB	ARG	373	16.500	29.118	29.951	1.00	29.61
ATOM	2552	CG	ARG	373	16.378	29.474	31.437	1.00	29.17
ATOM	2553	CD	ARG	373	15.773	30.858	31.623	1.00	26.49
ATOM	2554	NE	ARG	373	14.370	30.903	31.228	1.00	28.14
ATOM	2555	CZ	ARG	373	13.703	32.022	30.961	1.00	27.87
ATOM	2556	NH1	ARG	373	14.307	33.199	31.042	1.00	27.29
ATOM	2557	NH2	ARG	373	12.427	31.967	30.614	1.00	28.85
ATOM	2558	C	ARG	373	18.630	30.415	29.811	1.00	31.14
ATOM	2559	O	ARG	373	18.763	31.394	30.547	1.00	31.51
ATOM	2560	N	ARG	374	19.615	29.554	29.573	1.00	32.05
ATOM	2561	CA	ARG	374	20.928	29.743	30.175	1.00	34.06
ATOM	2562	CB	ARG	374	21.873	28.597	29.798	1.00	33.29
ATOM	2563	CG	ARG	374	21.388	27.221	30.202	1.00	33.93
ATOM	2564	CD	ARG	374	22.522	26.212	30.150	1.00	32.70
ATOM	2565	NE	ARG	374	22.071	24.854	30.450	1.00	33.93
ATOM	2566	CZ	ARG	374	21.510	24.033	29.565	1.00	33.76
ATOM	2567	NH1	ARG	374	21.329	24.423	28.311	1.00	30.05
ATOM	2568	NH2	ARG	374	21.131	22.817	29.936	1.00	33.89
ATOM	2569	C	ARG	374	21.532	31.066	29.713	1.00	34.72

ATOM	2570	O	ARG	374	22.160	31.780	30.496	1.00	36.00
ATOM	2571	N	GLY	375	21.331	31.388	28.439	1.00	35.42
ATOM	2572	CA	GLY	375	21.866	32.621	27.892	1.00	36.12
ATOM	2573	C	GLY	375	21.128	33.871	28.331	1.00	36.83
ATOM	2574	O	GLY	375	21.711	34.954	28.352	1.00	36.60
ATOM	2575	N	ALA	376	19.851	33.724	28.683	1.00	36.57
ATOM	2576	CA	ALA	376	19.027	34.851	29.114	1.00	37.33
ATOM	2577	CB	ALA	376	18.332	35.474	27.906	1.00	36.41
ATOM	2578	C	ALA	376	17.985	34.414	30.145	1.00	37.86
ATOM	2579	O	ALA	376	16.805	34.265	29.827	1.00	38.51
ATOM	2580	N	PRO	377	18.410	34.215	31.401	1.00	38.37
ATOM	2581	CD	PRO	377	19.789	34.359	31.901	1.00	38.55
ATOM	2582	CA	PRO	377	17.509	33.790	32.478	1.00	38.64
ATOM	2583	CB	PRO	377	18.474	33.389	33.586	1.00	39.17
ATOM	2584	CG	PRO	377	19.588	34.359	33.404	1.00	38.79
ATOM	2585	C	PRO	377	16.513	34.851	32.936	1.00	38.71
ATOM	2586	O	PRO	377	15.691	34.596	33.814	1.00	38.56
ATOM	2587	N	ASN	378	16.580	36.033	32.334	1.00	38.88
ATOM	2588	CA	ASN	378	15.682	37.120	32.707	1.00	39.81
ATOM	2589	CB	ASN	378	16.490	38.288	33.279	1.00	41.15
ATOM	2590	CG	ASN	378	17.316	37.889	34.484	1.00	41.16
ATOM	2591	OD1	ASN	378	16.779	37.468	35.504	1.00	42.22
ATOM	2592	ND2	ASN	378	18.632	38.018	34.369	1.00	43.85
ATOM	2593	C	ASN	378	14.838	37.613	31.540	1.00	39.91
ATOM	2594	O	ASN	378	14.375	38.754	31.541	1.00	42.79
ATOM	2595	N	CYS	379	14.635	36.763	30.541	1.00	38.30
ATOM	2596	CA	CYS	379	13.843	37.164	29.383	1.00	36.58
ATOM	2597	CB	CYS	379	14.585	36.836	28.088	1.00	36.64
ATOM	2598	SG	CYS	379	14.422	35.102	27.558	1.00	37.37
ATOM	2599	C	CYS	379	12.494	36.460	29.355	1.00	34.98
ATOM	2600	O	CYS	379	12.290	35.465	30.039	1.00	35.06
ATOM	2601	N	LEU	380	11.576	37.002	28.565	1.00	33.89
ATOM	2602	CA	LEU	380	10.261	36.411	28.397	1.00	32.87
ATOM	2603	CB	LEU	380	9.261	37.459	27.910	1.00	34.44
ATOM	2604	CG	LEU	380	7.810	36.999	27.743	1.00	34.49
ATOM	2605	CD1	LEU	380	7.243	36.590	29.094	1.00	36.11
ATOM	2606	CD2	LEU	380	6.982	38.120	27.139	1.00	36.04
ATOM	2607	C	LEU	380	10.485	35.353	27.319	1.00	32.33
ATOM	2608	O	LEU	380	10.675	35.686	26.147	1.00	31.37
ATOM	2609	N	LEU	381	10.477	34.083	27.715	1.00	30.46
ATOM	2610	CA	LEU	381	10.726	32.994	26.775	1.00	28.43
ATOM	2611	CB	LEU	381	11.683	31.976	27.416	1.00	28.20
ATOM	2612	CG	LEU	381	12.577	31.092	26.539	1.00	29.26
ATOM	2613	CD1	LEU	381	13.529	30.320	27.435	1.00	28.20
ATOM	2614	CD2	LEU	381	11.746	30.134	25.695	1.00	31.72
ATOM	2615	C	LEU	381	9.463	32.284	26.308	1.00	26.84
ATOM	2616	O	LEU	381	8.751	31.672	27.104	1.00	25.66
ATOM	2617	N	LEU	382	9.184	32.377	25.013	1.00	25.90
ATOM	2618	CA	LEU	382	8.026	31.706	24.436	1.00	26.12
ATOM	2619	CB	LEU	382	7.317	32.600	23.415	1.00	27.68
ATOM	2620	CG	LEU	382	6.383	33.685	23.955	1.00	29.10
ATOM	2621	CD1	LEU	382	7.172	34.713	24.751	1.00	29.94
ATOM	2622	CD2	LEU	382	5.667	34.344	22.779	1.00	30.46
ATOM	2623	C	LEU	382	8.528	30.450	23.743	1.00	24.87
ATOM	2624	O	LEU	382	9.485	30.499	22.973	1.00	24.72
ATOM	2625	N	ALA	383	7.888	29.323	24.027	1.00	24.02
ATOM	2626	CA	ALA	383	8.286	28.060	23.422	1.00	22.33
ATOM	2627	CB	ALA	383	8.631	27.050	24.503	1.00	22.02
ATOM	2628	C	ALA	383	7.157	27.530	22.567	1.00	20.94
ATOM	2629	O	ALA	383	6.016	27.446	23.017	1.00	20.60
ATOM	2630	N	ASP	384	7.467	27.165	21.331	1.00	20.39
ATOM	2631	CA	ASP	384	6.440	26.631	20.448	1.00	20.57
ATOM	2632	CB	ASP	384	6.888	26.689	18.995	1.00	22.20
ATOM	2633	CG	ASP	384	6.278	27.847	18.232	1.00	24.06
ATOM	2634	OD1	ASP	384	5.235	28.372	18.661	1.00	26.53
ATOM	2635	OD2	ASP	384	6.842	28.206	17.187	1.00	26.60
ATOM	2636	C	ASP	384	6.139	25.180	20.751	1.00	18.93
ATOM	2637	O	ASP	384	7.027	24.425	21.139	1.00	19.05
ATOM	2638	N	LEU	385	4.877	24.800	20.590	1.00	19.70
ATOM	2639	CA	LEU	385	4.504	23.398	20.725	1.00	19.65
ATOM	2640	CB	LEU	385	3.133	23.222	21.374	1.00	17.71
ATOM	2641	CG	LEU	385	3.087	23.370	22.901	1.00	16.98
ATOM	2642	CD1	LEU	385	1.716	22.965	23.429	1.00	15.13
ATOM	2643	CD2	LEU	385	4.162	22.498	23.523	1.00	16.02
ATOM	2644	C	LEU	385	4.462	23.012	19.246	1.00	20.97
ATOM	2645	O	LEU	385	3.705	23.596	18.461	1.00	21.82
ATOM	2646	N	PRO	386	5.303	22.047	18.841	1.00	19.88

ATOM	2647	CD	PRO	386	6.168	21.273	19.747	1.00	20.26
ATOM	2648	CA	PRO	386	5.416	21.554	17.466	1.00	19.86
ATOM	2649	CB	PRO	386	6.626	20.633	17.537	1.00	21.72
ATOM	2650	CG	PRO	386	6.512	20.061	18.921	1.00	20.75
ATOM	2651	C	PRO	386	4.184	20.846	16.905	1.00	19.67
ATOM	2652	O	PRO	386	3.167	20.679	17.586	1.00	19.34
ATOM	2653	N	PHE	387	4.300	20.437	15.647	1.00	19.25
ATOM	2654	CA	PHE	387	3.248	19.739	14.927	1.00	18.90
ATOM	2655	CB	PHE	387	3.820	19.249	13.580	1.00	20.39
ATOM	2656	CG	PHE	387	2.955	18.253	12.861	1.00	20.40
ATOM	2657	CD1	PHE	387	1.653	18.573	12.479	1.00	21.35
ATOM	2658	CD2	PHE	387	3.457	16.992	12.545	1.00	21.11
ATOM	2659	CE1	PHE	387	0.863	17.651	11.789	1.00	22.07
ATOM	2660	CE2	PHE	387	2.681	16.064	11.858	1.00	19.74
ATOM	2661	CZ	PHE	387	1.377	16.394	11.478	1.00	21.80
ATOM	2662	C	PHE	387	2.687	18.571	15.741	1.00	18.09
ATOM	2663	O	PHE	387	3.435	17.728	16.243	1.00	17.02
ATOM	2664	N	MET	388	1.363	18.562	15.881	1.00	17.04
ATOM	2665	CA	MET	388	0.615	17.528	16.589	1.00	18.41
ATOM	2666	CB	MET	388	0.742	16.197	15.839	1.00	19.83
ATOM	2667	CG	MET	388	-0.430	15.255	16.044	1.00	19.70
ATOM	2668	SD	MET	388	-1.962	15.929	15.362	1.00	19.18
ATOM	2669	CE	MET	388	-1.899	15.299	13.685	1.00	23.05
ATOM	2670	C	MET	388	0.986	17.332	18.062	1.00	18.34
ATOM	2671	O	MET	388	0.779	16.254	18.622	1.00	19.91
ATOM	2672	N	ALA	389	1.520	18.376	18.688	1.00	17.11
ATOM	2673	CA	ALA	389	1.896	18.314	20.099	1.00	17.62
ATOM	2674	CB	ALA	389	3.178	19.124	20.345	1.00	16.15
ATOM	2675	C	ALA	389	0.764	18.839	20.987	1.00	17.04
ATOM	2676	O	ALA	389	0.893	18.891	22.211	1.00	17.48
ATOM	2677	N	TYR	390	-0.343	19.231	20.367	1.00	17.06
ATOM	2678	CA	TYR	390	-1.496	19.727	21.111	1.00	18.54
ATOM	2679	CB	TYR	390	-1.422	21.261	21.266	1.00	17.65
ATOM	2680	CG	TYR	390	-1.128	22.020	19.987	1.00	18.84
ATOM	2681	CD1	TYR	390	-2.157	22.468	19.157	1.00	21.00
ATOM	2682	CE1	TYR	390	-1.881	23.124	17.950	1.00	21.33
ATOM	2683	CD2	TYR	390	0.183	22.247	19.585	1.00	19.67
ATOM	2684	CE2	TYR	390	0.471	22.895	18.390	1.00	22.68
ATOM	2685	CZ	TYR	390	-0.566	23.329	17.579	1.00	21.64
ATOM	2686	OH	TYR	390	-0.262	23.963	16.394	1.00	23.80
ATOM	2687	C	TYR	390	-2.790	19.291	20.437	1.00	18.26
ATOM	2688	O	TYR	390	-3.765	20.039	20.376	1.00	18.45
ATOM	2689	N	ALA	391	-2.780	18.050	19.949	1.00	18.00
ATOM	2690	CA	ALA	391	-3.915	17.447	19.253	1.00	17.25
ATOM	2691	CB	ALA	391	-3.497	16.109	18.656	1.00	18.23
ATOM	2692	C	ALA	391	-5.112	17.258	20.177	1.00	17.88
ATOM	2693	O	ALA	391	-6.250	17.147	19.719	1.00	18.08
ATOM	2694	N	THR	392	-4.846	17.195	21.478	1.00	15.74
ATOM	2695	CA	THR	392	-5.901	17.062	22.474	1.00	15.08
ATOM	2696	CB	THR	392	-6.124	15.605	22.917	1.00	17.15
ATOM	2697	OG1	THR	392	-4.980	15.146	23.645	1.00	17.01
ATOM	2698	CG2	THR	392	-6.350	14.704	21.713	1.00	18.95
ATOM	2699	C	THR	392	-5.445	17.857	23.682	1.00	14.74
ATOM	2700	O	THR	392	-4.252	18.072	23.866	1.00	15.11
ATOM	2701	N	PRO	393	-6.389	18.315	24.515	1.00	13.96
ATOM	2702	CD	PRO	393	-7.851	18.291	24.353	1.00	15.31
ATOM	2703	CA	PRO	393	-6.010	19.090	25.698	1.00	16.25
ATOM	2704	CB	PRO	393	-7.349	19.309	26.398	1.00	15.99
ATOM	2705	CG	PRO	393	-8.296	19.436	25.243	1.00	14.27
ATOM	2706	C	PRO	393	-5.016	18.320	26.550	1.00	16.25
ATOM	2707	O	PRO	393	-3.983	18.855	26.964	1.00	16.74
ATOM	2708	N	GLU	394	-5.323	17.049	26.781	1.00	17.06
ATOM	2709	CA	GLU	394	-4.474	16.188	27.586	1.00	18.79
ATOM	2710	CB	GLU	394	-5.044	14.771	27.591	1.00	22.17
ATOM	2711	CG	GLU	394	-4.455	13.860	28.630	1.00	29.13
ATOM	2712	CD	GLU	394	-5.105	12.495	28.613	1.00	33.05
ATOM	2713	OE1	GLU	394	-4.687	11.644	27.797	1.00	35.69
ATOM	2714	OE2	GLU	394	-6.055	12.288	29.402	1.00	34.53
ATOM	2715	C	GLU	394	-3.029	16.167	27.088	1.00	17.93
ATOM	2716	O	GLU	394	-2.092	16.296	27.878	1.00	17.60
ATOM	2717	N	GLN	395	-2.832	16.002	25.783	1.00	16.16
ATOM	2718	CA	GLN	395	-1.469	15.973	25.261	1.00	18.13
ATOM	2719	CB	GLN	395	-1.451	15.465	23.819	1.00	19.78
ATOM	2720	CG	GLN	395	-1.662	13.958	23.738	1.00	26.51
ATOM	2721	CD	GLN	395	-1.756	13.447	22.320	1.00	27.20
ATOM	2722	OE1	GLN	395	-0.821	13.590	21.535	1.00	31.74
ATOM	2723	NE2	GLN	395	-2.889	12.836	21.986	1.00	31.16

ATOM	2724	C	GLN	395	-0.812	17.342	25.348	1.00	16.31
ATOM	2725	O	GLN	395	0.394	17.448	25.560	1.00	15.19
ATOM	2726	N	ALA	396	-1.611	18.389	25.172	1.00	15.71
ATOM	2727	CA	ALA	396	-1.097	19.748	25.258	1.00	15.45
ATOM	2728	CB	ALA	396	-2.203	20.754	24.941	1.00	14.95
ATOM	2729	C	ALA	396	-0.552	19.995	26.665	1.00	15.89
ATOM	2730	O	ALA	396	0.535	20.548	26.832	1.00	15.31
ATOM	2731	N	PHE	397	-1.306	19.581	27.679	1.00	17.14
ATOM	2732	CA	PHE	397	-0.862	19.780	29.059	1.00	17.67
ATOM	2733	CB	PHE	397	-1.855	19.179	30.062	1.00	17.74
ATOM	2734	CG	PHE	397	-3.276	19.626	29.876	1.00	15.92
ATOM	2735	CD1	PHE	397	-3.571	20.887	29.368	1.00	17.98
ATOM	2736	CD2	PHE	397	-4.325	18.787	30.242	1.00	18.15
ATOM	2737	CE1	PHE	397	-4.891	21.311	29.222	1.00	20.21
ATOM	2738	CE2	PHE	397	-5.650	19.197	30.103	1.00	19.30
ATOM	2739	CZ	PHE	397	-5.934	20.465	29.591	1.00	20.13
ATOM	2740	C	PHE	397	0.496	19.120	29.277	1.00	17.87
ATOM	2741	O	PHE	397	1.397	19.710	29.867	1.00	18.64
ATOM	2742	N	GLU	398	0.628	17.887	28.793	1.00	18.39
ATOM	2743	CA	GLU	398	1.853	17.109	28.942	1.00	19.60
ATOM	2744	CB	GLU	398	1.612	15.691	28.411	1.00	22.86
ATOM	2745	CG	GLU	398	2.689	14.663	28.722	1.00	27.33
ATOM	2746	CD	GLU	398	2.800	14.340	30.203	1.00	31.00
ATOM	2747	OE1	GLU	398	1.840	14.603	30.958	1.00	32.52
ATOM	2748	OE2	GLU	398	3.854	13.804	30.606	1.00	34.89
ATOM	2749	C	GLU	398	3.047	17.740	28.224	1.00	17.86
ATOM	2750	O	GLU	398	4.139	17.864	28.791	1.00	17.51
ATOM	2751	N	ASN	399	2.836	18.143	26.977	1.00	17.52
ATOM	2752	CA	ASN	399	3.903	18.750	26.184	1.00	17.00
ATOM	2753	CB	ASN	399	3.545	18.695	24.696	1.00	17.91
ATOM	2754	CG	ASN	399	3.554	17.274	24.171	1.00	17.94
ATOM	2755	OD1	ASN	399	4.421	16.482	24.557	1.00	16.74
ATOM	2756	ND2	ASN	399	2.614	16.939	23.297	1.00	14.86
ATOM	2757	C	ASN	399	4.248	20.174	26.598	1.00	16.90
ATOM	2758	O	ASN	399	5.426	20.560	26.582	1.00	14.68
ATOM	2759	N	ALA	400	3.231	20.958	26.953	1.00	17.41
ATOM	2760	CA	ALA	400	3.465	22.324	27.403	1.00	17.58
ATOM	2761	CB	ALA	400	2.136	23.038	27.668	1.00	17.90
ATOM	2762	C	ALA	400	4.272	22.249	28.694	1.00	17.52
ATOM	2763	O	ALA	400	5.199	23.028	28.902	1.00	18.40
ATOM	2764	N	ALA	401	3.925	21.298	29.558	1.00	18.00
ATOM	2765	CA	ALA	401	4.629	21.152	30.825	1.00	17.86
ATOM	2766	CB	ALA	401	3.953	20.085	31.698	1.00	17.24
ATOM	2767	C	ALA	401	6.087	20.800	30.599	1.00	17.50
ATOM	2768	O	ALA	401	6.966	21.243	31.341	1.00	17.32
ATOM	2769	N	THR	402	6.349	20.004	29.569	1.00	17.75
ATOM	2770	CA	THR	402	7.714	19.604	29.259	1.00	17.20
ATOM	2771	CB	THR	402	7.744	18.579	28.100	1.00	17.19
ATOM	2772	OG1	THR	402	7.194	17.332	28.551	1.00	15.26
ATOM	2773	CG2	THR	402	9.169	18.361	27.621	1.00	17.10
ATOM	2774	C	THR	402	8.576	20.807	28.883	1.00	18.60
ATOM	2775	O	THR	402	9.690	20.954	29.380	1.00	18.32
ATOM	2776	N	VAL	403	8.063	21.675	28.016	1.00	18.13
ATOM	2777	CA	VAL	403	8.845	22.830	27.603	1.00	19.86
ATOM	2778	CB	VAL	403	8.313	23.416	26.275	1.00	20.58
ATOM	2779	CG1	VAL	403	9.411	24.207	25.600	1.00	25.39
ATOM	2780	CG2	VAL	403	7.857	22.290	25.344	1.00	22.84
ATOM	2781	C	VAL	403	8.886	23.901	28.702	1.00	21.59
ATOM	2782	O	VAL	403	9.825	24.701	28.769	1.00	21.71
ATOM	2783	N	MET	404	7.870	23.909	29.563	1.00	21.27
ATOM	2784	CA	MET	404	7.819	24.849	30.682	1.00	23.55
ATOM	2785	CB	MET	404	6.442	24.813	31.354	1.00	26.11
ATOM	2786	CG	MET	404	5.312	25.363	30.498	1.00	30.04
ATOM	2787	SD	MET	404	5.514	27.112	30.150	1.00	34.43
ATOM	2788	CE	MET	404	4.846	27.830	31.675	1.00	33.59
ATOM	2789	C	MET	404	8.902	24.474	31.704	1.00	22.56
ATOM	2790	O	MET	404	9.649	25.335	32.168	1.00	23.06
ATOM	2791	N	ARG	405	8.988	23.190	32.053	1.00	20.96
ATOM	2792	CA	ARG	405	9.998	22.739	33.008	1.00	21.29
ATOM	2793	CB	ARG	405	9.816	21.254	33.365	1.00	19.72
ATOM	2794	CG	ARG	405	8.471	20.900	33.973	1.00	19.05
ATOM	2795	CD	ARG	405	8.506	19.570	34.721	1.00	18.65
ATOM	2796	NE	ARG	405	7.157	19.145	35.096	1.00	22.57
ATOM	2797	CZ	ARG	405	6.330	18.474	34.299	1.00	21.33
ATOM	2798	NH1	ARG	405	6.717	18.130	33.075	1.00	23.18
ATOM	2799	NH2	ARG	405	5.101	18.180	34.709	1.00	20.27
ATOM	2800	C	ARG	405	11.395	22.948	32.419	1.00	21.30

ATOM	2801	O	ARG	405	12.385	23.004	33.144	1.00	20.18
ATOM	2802	N	ALA	406	11.465	23.068	31.097	1.00	21.02
ATOM	2803	CA	ALA	406	12.734	23.272	30.421	1.00	21.90
ATOM	2804	CB	ALA	406	12.625	22.844	28.961	1.00	22.53
ATOM	2805	C	ALA	406	13.188	24.730	30.511	1.00	24.17
ATOM	2806	O	ALA	406	14.331	25.050	30.182	1.00	24.00
ATOM	2807	N	GLY	407	12.298	25.616	30.950	1.00	24.29
ATOM	2808	CA	GLY	407	12.671	27.017	31.083	1.00	27.67
ATOM	2809	C	GLY	407	11.739	28.021	30.429	1.00	27.96
ATOM	2810	O	GLY	407	11.841	29.225	30.672	1.00	27.55
ATOM	2811	N	ALA	408	10.827	27.536	29.595	1.00	28.22
ATOM	2812	CA	ALA	408	9.892	28.423	28.920	1.00	27.88
ATOM	2813	CB	ALA	408	9.114	27.654	27.861	1.00	29.62
ATOM	2814	C	ALA	408	8.928	29.058	29.915	1.00	28.28
ATOM	2815	O	ALA	408	8.602	28.462	30.944	1.00	27.83
ATOM	2816	N	ASN	409	8.480	30.271	29.602	1.00	27.03
ATOM	2817	CA	ASN	409	7.539	30.996	30.454	1.00	27.18
ATOM	2818	CB	ASN	409	7.971	32.453	30.632	1.00	29.08
ATOM	2819	CG	ASN	409	9.327	32.590	31.274	1.00	28.79
ATOM	2820	OD1	ASN	409	9.552	32.124	32.394	1.00	28.82
ATOM	2821	ND2	ASN	409	10.245	33.244	30.571	1.00	27.34
ATOM	2822	C	ASN	409	6.156	30.993	29.823	1.00	26.67
ATOM	2823	O	ASN	409	5.150	31.201	30.501	1.00	25.46
ATOM	2824	N	MET	410	6.114	30.767	28.515	1.00	24.91
ATOM	2825	CA	MET	410	4.853	30.758	27.781	1.00	24.64
ATOM	2826	CB	MET	410	4.549	32.173	27.279	1.00	26.21
ATOM	2827	CG	MET	410	3.244	32.339	26.516	1.00	28.39
ATOM	2828	SD	MET	410	3.036	34.056	25.925	1.00	30.91
ATOM	2829	CE	MET	410	1.737	34.676	27.032	1.00	31.25
ATOM	2830	C	MET	410	4.947	29.794	26.605	1.00	23.26
ATOM	2831	O	MET	410	6.039	29.499	26.125	1.00	21.44
ATOM	2832	N	VAL	411	3.796	29.313	26.151	1.00	22.20
ATOM	2833	CA	VAL	411	3.726	28.381	25.035	1.00	24.32
ATOM	2834	CB	VAL	411	3.045	27.060	25.482	1.00	25.61
ATOM	2835	CG1	VAL	411	2.625	26.248	24.281	1.00	30.37
ATOM	2836	CG2	VAL	411	3.998	26.257	26.354	1.00	25.91
ATOM	2837	C	VAL	411	2.930	28.978	23.875	1.00	23.06
ATOM	2838	O	VAL	411	1.933	29.670	24.087	1.00	23.99
ATOM	2839	N	LYS	412	3.372	28.714	22.649	1.00	22.84
ATOM	2840	CA	LYS	412	2.674	29.220	21.471	1.00	22.52
ATOM	2841	CB	LYS	412	3.616	30.080	20.611	1.00	22.89
ATOM	2842	CG	LYS	412	2.927	30.727	19.405	1.00	23.26
ATOM	2843	CD	LYS	412	3.725	31.898	18.838	1.00	22.53
ATOM	2844	CE	LYS	412	4.979	31.436	18.103	1.00	22.01
ATOM	2845	NZ	LYS	412	4.638	30.645	16.892	1.00	20.94
ATOM	2846	C	LYS	412	2.129	28.056	20.649	1.00	23.26
ATOM	2847	O	LYS	412	2.830	27.071	20.406	1.00	22.79
ATOM	2848	N	ILE	413	0.870	28.170	20.240	1.00	23.60
ATOM	2849	CA	ILE	413	0.212	27.138	19.437	1.00	26.66
ATOM	2850	CB	ILE	413	-0.758	26.291	20.295	1.00	26.12
ATOM	2851	CG2	ILE	413	0.028	25.460	21.299	1.00	26.91
ATOM	2852	CG1	ILE	413	-1.751	27.203	21.020	1.00	28.28
ATOM	2853	CD1	ILE	413	-2.796	26.446	21.830	1.00	24.14
ATOM	2854	C	ILE	413	-0.580	27.747	18.282	1.00	27.66
ATOM	2855	O	ILE	413	-1.152	28.829	18.414	1.00	28.22
ATOM	2856	N	GLU	414	-0.615	27.037	17.158	1.00	29.05
ATOM	2857	CA	GLU	414	-1.318	27.489	15.958	1.00	30.52
ATOM	2858	CB	GLU	414	-0.569	27.025	14.707	1.00	31.51
ATOM	2859	CG	GLU	414	0.834	27.574	14.561	1.00	32.37
ATOM	2860	CD	GLU	414	1.593	26.923	13.416	1.00	33.72
ATOM	2861	OE1	GLU	414	0.951	26.261	12.568	1.00	32.40
ATOM	2862	OE2	GLU	414	2.832	27.082	13.356	1.00	32.46
ATOM	2863	C	GLU	414	-2.743	26.961	15.887	1.00	32.06
ATOM	2864	O	GLU	414	-2.997	25.800	16.201	1.00	33.94
ATOM	2865	N	GLY	415	-3.672	27.809	15.458	1.00	32.73
ATOM	2866	CA	GLY	415	-5.052	27.372	15.345	1.00	33.14
ATOM	2867	C	GLY	415	-6.074	28.431	15.703	1.00	32.54
ATOM	2868	O	GLY	415	-5.744	29.432	16.336	1.00	31.25
ATOM	2869	N	GLY	416	-7.322	28.199	15.302	1.00	33.53
ATOM	2870	CA	GLY	416	-8.386	29.148	15.586	1.00	34.28
ATOM	2871	C	GLY	416	-9.369	28.688	16.650	1.00	35.11
ATOM	2872	O	GLY	416	-8.976	28.275	17.741	1.00	35.72
ATOM	2873	N	GLU	417	-10.656	28.762	16.324	1.00	34.22
ATOM	2874	CA	GLU	417	-11.723	28.370	17.240	1.00	34.97
ATOM	2875	CB	GLU	417	-13.076	28.448	16.527	1.00	38.06
ATOM	2876	CG	GLU	417	-13.709	29.829	16.530	1.00	44.07
ATOM	2877	CD	GLU	417	-14.416	30.149	17.835	1.00	46.62

ATOM	2878	OE1	GLU	417	-13.763	30.094	18.900	1.00	48.75
ATOM	2879	OE2	GLU	417	-15.628	30.457	17.793	1.00	48.44
ATOM	2880	C	GLU	417	-11.576	26.986	17.861	1.00	33.06
ATOM	2881	O	GLU	417	-11.974	26.778	19.008	1.00	31.36
ATOM	2882	N	TRP	418	-11.011	26.041	17.115	1.00	31.17
ATOM	2883	CA	TRP	418	-10.865	24.683	17.632	1.00	30.62
ATOM	2884	CB	TRP	418	-10.427	23.710	16.526	1.00	29.57
ATOM	2885	CG	TRP	418	-8.968	23.794	16.161	1.00	27.67
ATOM	2886	CD2	TRP	418	-7.909	22.968	16.666	1.00	27.03
ATOM	2887	CE2	TRP	418	-6.710	23.410	16.063	1.00	25.39
ATOM	2888	CE3	TRP	418	-7.856	21.901	17.575	1.00	25.44
ATOM	2889	CD1	TRP	418	-8.386	24.674	15.297	1.00	27.61
ATOM	2890	NE1	TRP	418	-7.030	24.449	15.231	1.00	25.85
ATOM	2891	CZ2	TRP	418	-5.471	22.817	16.333	1.00	24.66
ATOM	2892	CZ3	TRP	418	-6.618	21.313	17.843	1.00	24.48
ATOM	2893	CH2	TRP	418	-5.446	21.777	17.225	1.00	24.32
ATOM	2894	C	TRP	418	-9.900	24.568	18.810	1.00	29.99
ATOM	2895	O	TRP	418	-9.793	23.500	19.417	1.00	31.23
ATOM	2896	N	LEU	419	-9.208	25.661	19.131	1.00	26.75
ATOM	2897	CA	LEU	419	-8.244	25.677	20.235	1.00	26.72
ATOM	2898	CB	LEU	419	-6.950	26.371	19.809	1.00	25.59
ATOM	2899	CG	LEU	419	-6.010	25.613	18.872	1.00	26.52
ATOM	2900	CD1	LEU	419	-4.746	26.434	18.644	1.00	25.61
ATOM	2901	CD2	LEU	419	-5.659	24.268	19.488	1.00	23.92
ATOM	2902	C	LEU	419	-8.755	26.355	21.498	1.00	26.45
ATOM	2903	O	LEU	419	-8.051	26.412	22.507	1.00	23.45
ATOM	2904	N	VAL	420	-9.976	26.871	21.442	1.00	25.42
ATOM	2905	CA	VAL	420	-10.562	27.544	22.591	1.00	25.27
ATOM	2906	CB	VAL	420	-12.053	27.865	22.340	1.00	25.27
ATOM	2907	CG1	VAL	420	-12.701	28.408	23.619	1.00	25.70
ATOM	2908	CG2	VAL	420	-12.171	28.891	21.220	1.00	25.05
ATOM	2909	C	VAL	420	-10.434	26.701	23.857	1.00	24.44
ATOM	2910	O	VAL	420	-9.785	27.109	24.819	1.00	24.50
ATOM	2911	N	GLU	421	-11.041	25.520	23.842	1.00	23.25
ATOM	2912	CA	GLU	421	-11.000	24.635	24.999	1.00	23.68
ATOM	2913	CB	GLU	421	-11.659	23.301	24.654	1.00	26.62
ATOM	2914	CG	GLU	421	-11.745	22.350	25.825	1.00	30.68
ATOM	2915	CD	GLU	421	-12.603	21.141	25.526	1.00	32.30
ATOM	2916	OE1	GLU	421	-12.199	20.308	24.688	1.00	32.73
ATOM	2917	OE2	GLU	421	-13.692	21.036	26.129	1.00	36.59
ATOM	2918	C	GLU	421	-9.576	24.393	25.513	1.00	22.94
ATOM	2919	O	GLU	421	-9.320	24.490	26.711	1.00	21.48
ATOM	2920	N	THR	422	-8.660	24.079	24.602	1.00	21.94
ATOM	2921	CA	THR	422	-7.267	23.827	24.952	1.00	20.34
ATOM	2922	CB	THR	422	-6.456	23.462	23.692	1.00	21.24
ATOM	2923	OG1	THR	422	-7.015	22.283	23.103	1.00	20.48
ATOM	2924	CG2	THR	422	-4.991	23.211	24.032	1.00	19.54
ATOM	2925	C	THR	422	-6.634	25.042	25.625	1.00	21.57
ATOM	2926	O	THR	422	-5.871	24.916	26.591	1.00	20.08
ATOM	2927	N	VAL	423	-6.951	26.224	25.109	1.00	22.38
ATOM	2928	CA	VAL	423	-6.420	27.453	25.675	1.00	23.54
ATOM	2929	CB	VAL	423	-6.755	28.672	24.794	1.00	24.18
ATOM	2930	CG1	VAL	423	-6.307	29.955	25.497	1.00	24.10
ATOM	2931	CG2	VAL	423	-6.064	28.540	23.455	1.00	22.31
ATOM	2932	C	VAL	423	-6.973	27.699	27.074	1.00	24.57
ATOM	2933	O	VAL	423	-6.221	28.014	27.994	1.00	24.45
ATOM	2934	N	GLN	424	-8.286	27.554	27.231	1.00	24.53
ATOM	2935	CA	GLN	424	-8.910	27.776	28.529	1.00	25.29
ATOM	2936	CB	GLN	424	-10.429	27.587	28.438	1.00	26.08
ATOM	2937	CG	GLN	424	-11.088	28.337	27.289	1.00	29.30
ATOM	2938	CD	GLN	424	-12.604	28.243	27.319	1.00	31.02
ATOM	2939	OE1	GLN	424	-13.171	27.155	27.423	1.00	27.95
ATOM	2940	NE2	GLN	424	-13.269	29.390	27.220	1.00	33.12
ATOM	2941	C	GLN	424	-8.338	26.819	29.568	1.00	25.02
ATOM	2942	O	GLN	424	-7.998	27.225	30.677	1.00	23.19
ATOM	2943	N	MET	425	-8.216	25.549	29.204	1.00	21.87
ATOM	2944	CA	MET	425	-7.703	24.556	30.135	1.00	22.36
ATOM	2945	CB	MET	425	-8.003	23.155	29.609	1.00	22.27
ATOM	2946	CG	MET	425	-9.484	22.889	29.484	1.00	23.95
ATOM	2947	SD	MET	425	-9.848	21.203	29.002	1.00	24.90
ATOM	2948	CE	MET	425	-9.831	20.377	30.583	1.00	28.11
ATOM	2949	C	MET	425	-6.216	24.707	30.448	1.00	20.61
ATOM	2950	O	MET	425	-5.791	24.450	31.571	1.00	20.01
ATOM	2951	N	LEU	426	-5.426	25.122	29.463	1.00	20.23
ATOM	2952	CA	LEU	426	-3.999	25.315	29.685	1.00	20.83
ATOM	2953	CB	LEU	426	-3.291	25.634	28.366	1.00	18.83
ATOM	2954	CG	LEU	426	-2.789	24.412	27.576	1.00	16.82

ATOM	2955	CD1	LEU	426	-2.321	24.828	26.188	1.00	18.65
ATOM	2956	CD2	LEU	426	-1.642	23.764	28.344	1.00	18.65
ATOM	2957	C	LEU	426	-3.810	26.465	30.668	1.00	24.13
ATOM	2958	O	LEU	426	-2.952	26.411	31.550	1.00	23.47
ATOM	2959	N	THR	427	-4.631	27.498	30.505	1.00	27.30
ATOM	2960	CA	THR	427	-4.594	28.681	31.357	1.00	31.01
ATOM	2961	CB	THR	427	-5.694	29.685	30.957	1.00	31.69
ATOM	2962	OG1	THR	427	-5.486	30.107	29.605	1.00	34.44
ATOM	2963	CG2	THR	427	-5.665	30.903	31.868	1.00	34.25
ATOM	2964	C	THR	427	-4.774	28.340	32.831	1.00	31.38
ATOM	2965	O	THR	427	-3.902	28.627	33.646	1.00	31.24
ATOM	2966	N	GLU	428	-5.905	27.727	33.172	1.00	32.66
ATOM	2967	CA	GLU	428	-6.168	27.375	34.563	1.00	32.58
ATOM	2968	CB	GLU	428	-7.614	26.899	34.741	1.00	33.84
ATOM	2969	CG	GLU	428	-8.107	25.949	33.673	1.00	34.13
ATOM	2970	CD	GLU	428	-9.482	25.377	33.995	1.00	34.03
ATOM	2971	OE1	GLU	428	-10.368	26.145	34.438	1.00	30.96
ATOM	2972	OE2	GLU	428	-9.673	24.162	33.793	1.00	31.63
ATOM	2973	C	GLU	428	-5.206	26.339	35.134	1.00	32.23
ATOM	2974	O	GLU	428	-5.269	26.022	36.320	1.00	32.97
ATOM	2975	N	ARG	429	-4.314	25.816	34.296	1.00	31.00
ATOM	2976	CA	ARG	429	-3.339	24.831	34.753	1.00	27.80
ATOM	2977	CB	ARG	429	-3.372	23.594	33.844	1.00	26.67
ATOM	2978	CG	ARG	429	-4.594	22.731	34.106	1.00	25.42
ATOM	2979	CD	ARG	429	-4.832	21.643	33.064	1.00	21.31
ATOM	2980	NE	ARG	429	-6.072	20.932	33.372	1.00	20.15
ATOM	2981	CZ	ARG	429	-7.270	21.513	33.413	1.00	19.59
ATOM	2982	NH1	ARG	429	-7.396	22.805	33.157	1.00	19.16
ATOM	2983	NH2	ARG	429	-8.340	20.815	33.736	1.00	18.53
ATOM	2984	C	ARG	429	-1.930	25.423	34.825	1.00	28.16
ATOM	2985	O	ARG	429	-0.934	24.708	34.728	1.00	27.12
ATOM	2986	N	ALA	430	-1.865	26.742	34.990	1.00	29.24
ATOM	2987	CA	ALA	430	-0.600	27.464	35.109	1.00	29.49
ATOM	2988	CB	ALA	430	0.233	26.864	36.237	1.00	29.80
ATOM	2989	C	ALA	430	0.239	27.544	33.834	1.00	29.79
ATOM	2990	O	ALA	430	1.468	27.521	33.900	1.00	30.37
ATOM	2991	N	VAL	431	-0.409	27.641	32.676	1.00	29.07
ATOM	2992	CA	VAL	431	0.332	27.738	31.420	1.00	27.53
ATOM	2993	CB	VAL	431	0.279	26.405	30.623	1.00	27.98
ATOM	2994	CG1	VAL	431	1.073	26.545	29.327	1.00	27.45
ATOM	2995	CG2	VAL	431	0.848	25.274	31.457	1.00	25.30
ATOM	2996	C	VAL	431	-0.175	28.866	30.522	1.00	27.45
ATOM	2997	O	VAL	431	-1.231	28.750	29.894	1.00	27.25
ATOM	2998	N	PRO	432	0.570	29.986	30.460	1.00	26.79
ATOM	2999	CD	PRO	432	1.831	30.287	31.155	1.00	26.11
ATOM	3000	CA	PRO	432	0.159	31.115	29.617	1.00	26.19
ATOM	3001	CB	PRO	432	1.135	32.218	30.017	1.00	27.09
ATOM	3002	CG	PRO	432	2.360	31.452	30.362	1.00	29.57
ATOM	3003	C	PRO	432	0.285	30.715	28.152	1.00	24.89
ATOM	3004	O	PRO	432	1.205	29.987	27.775	1.00	24.44
ATOM	3005	N	VAL	433	-0.642	31.192	27.333	1.00	23.55
ATOM	3006	CA	VAL	433	-0.653	30.841	25.924	1.00	22.49
ATOM	3007	CB	VAL	433	-1.895	29.990	25.592	1.00	20.80
ATOM	3008	CG1	VAL	433	-1.915	29.640	24.111	1.00	21.86
ATOM	3009	CG2	VAL	433	-1.896	28.726	26.449	1.00	19.73
ATOM	3010	C	VAL	433	-0.633	32.030	24.980	1.00	24.12
ATOM	3011	O	VAL	433	-1.244	33.068	25.244	1.00	22.28
ATOM	3012	N	CYS	434	0.091	31.850	23.880	1.00	25.46
ATOM	3013	CA	CYS	434	0.206	32.841	22.820	1.00	26.20
ATOM	3014	CB	CYS	434	1.675	33.159	22.543	1.00	27.30
ATOM	3015	SG	CYS	434	1.936	34.229	21.110	1.00	29.19
ATOM	3016	C	CYS	434	-0.416	32.197	21.585	1.00	27.10
ATOM	3017	O	CYS	434	0.010	31.123	21.165	1.00	27.48
ATOM	3018	N	GLY	435	-1.428	32.842	21.019	1.00	25.59
ATOM	3019	CA	GLY	435	-2.078	32.298	19.842	1.00	27.29
ATOM	3020	C	GLY	435	-1.269	32.541	18.586	1.00	27.32
ATOM	3021	O	GLY	435	-0.237	33.211	18.629	1.00	26.82
ATOM	3022	N	HIS	436	-1.737	32.005	17.463	1.00	27.79
ATOM	3023	CA	HIS	436	-1.037	32.164	16.195	1.00	28.13
ATOM	3024	CB	HIS	436	0.117	31.158	16.128	1.00	28.29
ATOM	3025	CG	HIS	436	1.044	31.362	14.970	1.00	29.67
ATOM	3026	CD2	HIS	436	0.893	32.043	13.809	1.00	28.18
ATOM	3027	ND1	HIS	436	2.298	30.792	14.918	1.00	28.22
ATOM	3028	CE1	HIS	436	2.878	31.110	13.775	1.00	29.12
ATOM	3029	NE2	HIS	436	2.046	31.868	13.083	1.00	27.13
ATOM	3030	C	HIS	436	-2.008	31.950	15.039	1.00	29.59
ATOM	3031	O	HIS	436	-2.356	30.817	14.708	1.00	27.47



ATOM	3032	N	LEU	437	-2.442	33.052	14.428	1.00	30.59
ATOM	3033	CA	LEU	437	-3.384	32.999	13.314	1.00	31.59
ATOM	3034	CB	LEU	437	-4.632	33.823	13.643	1.00	31.44
ATOM	3035	CG	LEU	437	-5.519	33.332	14.790	1.00	30.60
ATOM	3036	CD1	LEU	437	-6.611	34.351	15.065	1.00	30.46
ATOM	3037	CD2	LEU	437	-6.124	31.978	14.429	1.00	30.85
ATOM	3038	C	LEU	437	-2.771	33.507	12.015	1.00	32.51
ATOM	3039	O	LEU	437	-1.758	34.204	12.024	1.00	32.44
ATOM	3040	N	GLY	438	-3.399	33.154	10.898	1.00	34.06
ATOM	3041	CA	GLY	438	-2.905	33.587	9.606	1.00	35.62
ATOM	3042	C	GLY	438	-2.283	32.452	8.825	1.00	37.37
ATOM	3043	O	GLY	438	-2.896	31.400	8.641	1.00	37.17
ATOM	3044	N	LEU	439	-1.055	32.659	8.366	1.00	38.61
ATOM	3045	CA	LEU	439	-0.355	31.642	7.601	1.00	39.93
ATOM	3046	CB	LEU	439	0.623	32.310	6.630	1.00	42.55
ATOM	3047	CG	LEU	439	1.104	31.510	5.414	1.00	44.13
ATOM	3048	CD1	LEU	439	1.964	32.410	4.533	1.00	45.83
ATOM	3049	CD2	LEU	439	1.889	30.288	5.858	1.00	43.74
ATOM	3050	C	LEU	439	0.388	30.719	8.567	1.00	40.30
ATOM	3051	O	LEU	439	1.549	30.957	8.902	1.00	40.50
ATOM	3052	N	THR	440	-0.302	29.675	9.020	1.00	39.46
ATOM	3053	CA	THR	440	0.267	28.700	9.947	1.00	38.93
ATOM	3054	CB	THR	440	-0.847	27.967	10.717	1.00	39.18
ATOM	3055	OG1	THR	440	-1.763	27.374	9.787	1.00	38.96
ATOM	3056	CG2	THR	440	-1.600	28.938	11.612	1.00	37.57
ATOM	3057	C	THR	440	1.108	27.677	9.181	1.00	38.59
ATOM	3058	O	THR	440	0.572	26.785	8.522	1.00	38.96
ATOM	3059	N	PRO	441	2.444	27.791	9.270	1.00	37.45
ATOM	3060	CD	PRO	441	3.166	28.736	10.142	1.00	37.29
ATOM	3061	CA	PRO	441	3.378	26.891	8.586	1.00	36.21
ATOM	3062	CB	PRO	441	4.747	27.433	8.998	1.00	36.37
ATOM	3063	CG	PRO	441	4.485	28.045	10.332	1.00	39.17
ATOM	3064	C	PRO	441	3.205	25.400	8.882	1.00	34.87
ATOM	3065	O	PRO	441	3.548	24.558	8.050	1.00	33.70
ATOM	3066	N	GLN	442	2.677	25.069	10.058	1.00	33.93
ATOM	3067	CA	GLN	442	2.453	23.668	10.406	1.00	32.20
ATOM	3068	CB	GLN	442	1.991	23.542	11.863	1.00	31.74
ATOM	3069	CG	GLN	442	3.122	23.343	12.873	1.00	29.51
ATOM	3070	CD	GLN	442	2.644	23.472	14.312	1.00	29.21
ATOM	3071	OE1	GLN	442	1.579	22.972	14.670	1.00	27.25
ATOM	3072	NE2	GLN	442	3.436	24.136	15.145	1.00	28.44
ATOM	3073	C	GLN	442	1.406	23.052	9.472	1.00	31.45
ATOM	3074	O	GLN	442	1.423	21.848	9.215	1.00	30.71
ATOM	3075	N	SER	443	0.500	23.885	8.965	1.00	30.60
ATOM	3076	CA	SER	443	-0.546	23.420	8.058	1.00	31.30
ATOM	3077	CB	SER	443	-1.881	24.089	8.394	1.00	31.62
ATOM	3078	OG	SER	443	-2.343	23.707	9.680	1.00	32.96
ATOM	3079	C	SER	443	-0.188	23.711	6.603	1.00	30.60
ATOM	3080	O	SER	443	-1.070	23.829	5.751	1.00	29.98
ATOM	3081	N	VAL	444	1.109	23.818	6.323	1.00	29.83
ATOM	3082	CA	VAL	444	1.590	24.101	4.970	1.00	29.28
ATOM	3083	CB	VAL	444	3.143	24.079	4.909	1.00	30.47
ATOM	3084	CG1	VAL	444	3.670	22.706	5.307	1.00	28.85
ATOM	3085	CG2	VAL	444	3.616	24.440	3.504	1.00	30.63
ATOM	3086	C	VAL	444	1.039	23.101	3.952	1.00	30.00
ATOM	3087	O	VAL	444	0.718	23.466	2.819	1.00	30.16
ATOM	3088	N	ASN	445	0.925	21.842	4.361	1.00	28.62
ATOM	3089	CA	ASN	445	0.412	20.804	3.478	1.00	27.90
ATOM	3090	CB	ASN	445	0.666	19.425	4.089	1.00	26.96
ATOM	3091	CG	ASN	445	2.141	19.128	4.245	1.00	28.30
ATOM	3092	OD1	ASN	445	2.868	19.009	3.257	1.00	30.31
ATOM	3093	ND2	ASN	445	2.598	19.023	5.488	1.00	28.01
ATOM	3094	C	ASN	445	-1.073	20.991	3.203	1.00	27.73
ATOM	3095	O	ASN	445	-1.575	20.566	2.165	1.00	25.69
ATOM	3096	N	ILE	446	-1.767	21.632	4.138	1.00	29.28
ATOM	3097	CA	ILE	446	-3.196	21.890	3.993	1.00	31.96
ATOM	3098	CB	ILE	446	-3.836	22.319	5.335	1.00	31.98
ATOM	3099	CG2	ILE	446	-5.264	22.799	5.105	1.00	31.16
ATOM	3100	CG1	ILE	446	-3.814	21.153	6.331	1.00	30.13
ATOM	3101	CD1	ILE	446	-4.670	19.979	5.928	1.00	31.79
ATOM	3102	C	ILE	446	-3.411	23.007	2.982	1.00	34.41
ATOM	3103	O	ILE	446	-4.239	22.889	2.080	1.00	33.82
ATOM	3104	N	PHE	447	-2.657	24.092	3.142	1.00	36.64
ATOM	3105	CA	PHE	447	-2.763	25.245	2.249	1.00	39.97
ATOM	3106	CB	PHE	447	-2.040	26.452	2.852	1.00	39.70
ATOM	3107	CG	PHE	447	-2.516	26.826	4.228	1.00	40.98
ATOM	3108	CD1	PHE	447	-3.860	27.100	4.467	1.00	41.63

ATOM	3109	CD2	PHE	447	-1.613	26.931	5.282	1.00	41.49
ATOM	3110	CE1	PHE	447	-4.299	27.474	5.738	1.00	41.71
ATOM	3111	CE2	PHE	447	-2.040	27.304	6.557	1.00	41.93
ATOM	3112	CZ	PHE	447	-3.388	27.577	6.785	1.00	41.96
ATOM	3113	C	PHE	447	-2.170	24.948	0.874	1.00	42.08
ATOM	3114	O	PHE	447	-2.536	25.579	-0.121	1.00	42.68
ATOM	3115	N	GLY	448	-1.251	23.987	0.831	1.00	43.71
ATOM	3116	CA	GLY	448	-0.608	23.622	-0.418	1.00	45.97
ATOM	3117	C	GLY	448	0.576	24.528	-0.695	1.00	47.94
ATOM	3118	O	GLY	448	0.963	24.729	-1.846	1.00	48.22
ATOM	3119	N	GLY	449	1.150	25.076	0.371	1.00	49.19
ATOM	3120	CA	GLY	449	2.285	25.969	0.239	1.00	50.57
ATOM	3121	C	GLY	449	2.149	27.142	1.191	1.00	51.89
ATOM	3122	O	GLY	449	1.263	27.148	2.047	1.00	51.79
ATOM	3123	N	TYR	450	3.020	28.137	1.048	1.00	53.06
ATOM	3124	CA	TYR	450	2.970	29.311	1.912	1.00	54.66
ATOM	3125	CB	TYR	450	4.375	29.674	2.397	1.00	54.86
ATOM	3126	CG	TYR	450	5.085	28.537	3.093	1.00	55.77
ATOM	3127	CD1	TYR	450	5.758	27.559	2.362	1.00	55.77
ATOM	3128	CE1	TYR	450	6.387	26.490	2.996	1.00	56.62
ATOM	3129	CD2	TYR	450	5.057	28.420	4.482	1.00	55.92
ATOM	3130	CE2	TYR	450	5.681	27.354	5.128	1.00	56.38
ATOM	3131	CZ	TYR	450	6.344	26.392	4.378	1.00	56.70
ATOM	3132	OH	TYR	450	6.958	25.329	5.008	1.00	56.18
ATOM	3133	C	TYR	450	2.346	30.493	1.178	1.00	55.36
ATOM	3134	O	TYR	450	3.036	31.265	0.513	1.00	55.48
ATOM	3135	N	LYS	451	1.031	30.625	1.311	1.00	56.14
ATOM	3136	CA	LYS	451	0.291	31.695	0.659	1.00	56.56
ATOM	3137	CB	LYS	451	-0.833	31.099	-0.189	1.00	57.29
ATOM	3138	CG	LYS	451	-0.410	29.887	-1.008	1.00	57.70
ATOM	3139	CD	LYS	451	-1.613	29.188	-1.621	1.00	58.82
ATOM	3140	CE	LYS	451	-1.232	27.840	-2.215	1.00	58.93
ATOM	3141	NZ	LYS	451	-2.426	27.115	-2.731	1.00	58.99
ATOM	3142	C	LYS	451	-0.296	32.626	1.714	1.00	56.60
ATOM	3143	O	LYS	451	-0.542	32.216	2.849	1.00	56.17
ATOM	3144	N	VAL	452	-0.521	33.879	1.333	1.00	56.36
ATOM	3145	CA	VAL	452	-1.079	34.868	2.245	1.00	56.35
ATOM	3146	CB	VAL	452	-0.945	36.297	1.667	1.00	56.62
ATOM	3147	CG1	VAL	452	-1.394	37.322	2.696	1.00	56.98
ATOM	3148	CG2	VAL	452	0.491	36.553	1.247	1.00	56.04
ATOM	3149	C	VAL	452	-2.557	34.591	2.514	1.00	56.29
ATOM	3150	O	VAL	452	-3.383	34.631	1.600	1.00	56.01
ATOM	3151	N	GLN	453	-2.880	34.304	3.772	1.00	56.06
ATOM	3152	CA	GLN	453	-4.258	34.036	4.166	1.00	56.41
ATOM	3153	CB	GLN	453	-4.303	33.044	5.334	1.00	56.31
ATOM	3154	CG	GLN	453	-4.304	31.574	4.926	1.00	56.61
ATOM	3155	CD	GLN	453	-3.011	31.138	4.268	1.00	57.19
ATOM	3156	OE1	GLN	453	-1.934	31.255	4.854	1.00	57.65
ATOM	3157	NE2	GLN	453	-3.111	30.624	3.048	1.00	55.74
ATOM	3158	C	GLN	453	-4.965	35.327	4.565	1.00	56.38
ATOM	3159	O	GLN	453	-4.333	36.375	4.704	1.00	55.54
ATOM	3160	N	GLY	454	-6.281	35.244	4.746	1.00	56.76
ATOM	3161	CA	GLY	454	-7.053	36.413	5.127	1.00	57.88
ATOM	3162	C	GLY	454	-7.627	37.165	3.940	1.00	58.46
ATOM	3163	O	GLY	454	-8.382	38.120	4.115	1.00	58.43
ATOM	3164	N	ARG	455	-7.267	36.735	2.733	1.00	59.53
ATOM	3165	CA	ARG	455	-7.750	37.371	1.509	1.00	61.02
ATOM	3166	CB	ARG	455	-7.081	36.737	0.283	1.00	61.22
ATOM	3167	CG	ARG	455	-5.603	37.080	0.120	1.00	61.34
ATOM	3168	CD	ARG	455	-5.416	38.532	-0.305	1.00	61.58
ATOM	3169	NE	ARG	455	-4.023	38.979	-0.232	1.00	61.55
ATOM	3170	CZ	ARG	455	-3.013	38.444	-0.914	1.00	60.83
ATOM	3171	NH1	ARG	455	-3.224	37.425	-1.736	1.00	60.33
ATOM	3172	NH2	ARG	455	-1.788	38.935	-0.778	1.00	60.86
ATOM	3173	C	ARG	455	-9.268	37.252	1.387	1.00	61.98
ATOM	3174	O	ARG	455	-9.805	36.157	1.214	1.00	61.66
ATOM	3175	N	GLY	456	-9.955	38.387	1.482	1.00	62.93
ATOM	3176	CA	GLY	456	-11.402	38.386	1.379	1.00	64.13
ATOM	3177	C	GLY	456	-12.084	38.769	2.678	1.00	65.08
ATOM	3178	O	GLY	456	-11.445	38.843	3.728	1.00	65.12
ATOM	3179	N	ASP	457	-13.388	39.016	2.606	1.00	65.45
ATOM	3180	CA	ASP	457	-14.162	39.392	3.783	1.00	65.79
ATOM	3181	CB	ASP	457	-15.457	40.094	3.365	1.00	66.87
ATOM	3182	CG	ASP	457	-15.205	41.358	2.565	1.00	67.41
ATOM	3183	OD1	ASP	457	-14.544	42.277	3.095	1.00	67.49
ATOM	3184	OD2	ASP	457	-15.668	41.432	1.407	1.00	68.24
ATOM	3185	C	ASP	457	-14.494	38.159	4.616	1.00	65.50

ATOM	3186	O	ASP	457	-14.485	38.208	5.846	1.00	65.44
ATOM	3187	N	GLU	458	-14.788	37.055	3.936	1.00	65.17
ATOM	3188	CA	GLU	458	-15.122	35.808	4.611	1.00	64.76
ATOM	3189	CB	GLU	458	-15.460	34.726	3.583	1.00	65.72
ATOM	3190	CG	GLU	458	-15.856	33.392	4.194	1.00	67.79
ATOM	3191	CD	GLU	458	-16.235	32.360	3.149	1.00	68.91
ATOM	3192	OE1	GLU	458	-17.201	32.605	2.394	1.00	69.70
ATOM	3193	OE2	GLU	458	-15.568	31.305	3.083	1.00	69.17
ATOM	3194	C	GLU	458	-13.956	35.348	5.480	1.00	63.98
ATOM	3195	O	GLU	458	-14.115	35.121	6.681	1.00	63.71
ATOM	3196	N	ALA	459	-12.785	35.213	4.866	1.00	62.74
ATOM	3197	CA	ALA	459	-11.588	34.787	5.581	1.00	61.25
ATOM	3198	CB	ALA	459	-10.462	34.507	4.594	1.00	61.27
ATOM	3199	C	ALA	459	-11.159	35.863	6.575	1.00	60.06
ATOM	3200	O	ALA	459	-10.630	35.560	7.645	1.00	59.75
ATOM	3201	N	GLY	460	-11.392	37.119	6.212	1.00	58.46
ATOM	3202	CA	GLY	460	-11.029	38.218	7.083	1.00	57.13
ATOM	3203	C	GLY	460	-11.808	38.207	8.384	1.00	56.78
ATOM	3204	O	GLY	460	-11.220	38.275	9.463	1.00	56.93
ATOM	3205	N	ASP	461	-13.132	38.118	8.290	1.00	55.32
ATOM	3206	CA	ASP	461	-13.974	38.101	9.481	1.00	54.77
ATOM	3207	CB	ASP	461	-15.455	38.211	9.099	1.00	55.32
ATOM	3208	CG	ASP	461	-15.783	39.512	8.386	1.00	56.16
ATOM	3209	OD1	ASP	461	-15.440	40.593	8.913	1.00	56.40
ATOM	3210	OD2	ASP	461	-16.395	39.452	7.301	1.00	56.69
ATOM	3211	C	ASP	461	-13.753	36.825	10.287	1.00	53.74
ATOM	3212	O	ASP	461	-13.998	36.792	11.491	1.00	53.31
ATOM	3213	N	GLN	462	-13.290	35.776	9.614	1.00	53.09
ATOM	3214	CA	GLN	462	-13.034	34.500	10.268	1.00	52.15
ATOM	3215	CB	GLN	462	-12.908	33.387	9.228	1.00	51.74
ATOM	3216	CG	GLN	462	-12.684	32.009	9.826	1.00	51.57
ATOM	3217	CD	GLN	462	-13.729	31.655	10.865	1.00	52.18
ATOM	3218	OE1	GLN	462	-14.930	31.725	10.604	1.00	51.90
ATOM	3219	NE2	GLN	462	-13.275	31.268	12.053	1.00	52.39
ATOM	3220	C	GLN	462	-11.767	34.567	11.108	1.00	51.68
ATOM	3221	O	GLN	462	-11.647	33.878	12.121	1.00	52.10
ATOM	3222	N	LEU	463	-10.819	35.397	10.686	1.00	51.14
ATOM	3223	CA	LEU	463	-9.567	35.552	11.419	1.00	50.31
ATOM	3224	CB	LEU	463	-8.478	36.116	10.507	1.00	51.43
ATOM	3225	CG	LEU	463	-8.036	35.227	9.343	1.00	52.52
ATOM	3226	CD1	LEU	463	-6.962	35.949	8.542	1.00	53.49
ATOM	3227	CD2	LEU	463	-7.505	33.901	9.872	1.00	53.21
ATOM	3228	C	LEU	463	-9.769	36.480	12.603	1.00	49.29
ATOM	3229	O	LEU	463	-9.162	36.295	13.656	1.00	49.00
ATOM	3230	N	LEU	464	-10.622	37.483	12.424	1.00	48.83
ATOM	3231	CA	LEU	464	-10.907	38.439	13.488	1.00	48.51
ATOM	3232	CB	LEU	464	-11.724	39.613	12.939	1.00	48.82
ATOM	3233	CG	LEU	464	-11.609	40.957	13.668	1.00	50.56
ATOM	3234	CD1	LEU	464	-12.492	41.976	12.960	1.00	50.81
ATOM	3235	CD2	LEU	464	-12.017	40.827	15.126	1.00	49.90
ATOM	3236	C	LEU	464	-11.697	37.725	14.582	1.00	46.83
ATOM	3237	O	LEU	464	-11.471	37.950	15.772	1.00	46.51
ATOM	3238	N	SER	465	-12.626	36.867	14.165	1.00	45.83
ATOM	3239	CA	SER	465	-13.452	36.104	15.095	1.00	44.66
ATOM	3240	CB	SER	465	-14.506	35.295	14.335	1.00	45.80
ATOM	3241	OG	SER	465	-15.284	34.505	15.225	1.00	45.26
ATOM	3242	C	SER	465	-12.576	35.156	15.900	1.00	43.62
ATOM	3243	O	SER	465	-12.702	35.072	17.119	1.00	43.30
ATOM	3244	N	ASP	466	-11.700	34.435	15.205	1.00	41.72
ATOM	3245	CA	ASP	466	-10.796	33.503	15.867	1.00	40.59
ATOM	3246	CB	ASP	466	-9.941	32.742	14.847	1.00	40.56
ATOM	3247	CG	ASP	466	-10.730	31.693	14.086	1.00	41.88
ATOM	3248	OD1	ASP	466	-11.651	31.083	14.674	1.00	43.44
ATOM	3249	OD2	ASP	466	-10.418	31.458	12.902	1.00	41.17
ATOM	3250	C	ASP	466	-9.885	34.265	16.817	1.00	38.59
ATOM	3251	O	ASP	466	-9.566	33.780	17.900	1.00	37.69
ATOM	3252	N	ALA	467	-9.472	35.460	16.408	1.00	37.24
ATOM	3253	CA	ALA	467	-8.596	36.291	17.226	1.00	36.59
ATOM	3254	CB	ALA	467	-8.232	37.568	16.472	1.00	35.34
ATOM	3255	C	ALA	467	-9.284	36.635	18.541	1.00	36.59
ATOM	3256	O	ALA	467	-8.707	36.477	19.616	1.00	36.56
ATOM	3257	N	LEU	468	-10.520	37.116	18.450	1.00	36.29
ATOM	3258	CA	LEU	468	-11.283	37.465	19.643	1.00	36.13
ATOM	3259	CB	LEU	468	-12.610	38.119	19.254	1.00	36.56
ATOM	3260	CG	LEU	468	-12.551	39.555	18.732	1.00	38.68
ATOM	3261	CD1	LEU	468	-13.871	39.910	18.062	1.00	40.41
ATOM	3262	CD2	LEU	468	-12.248	40.501	19.884	1.00	38.41

ATOM	3263	C	LEU	468	-11.559	36.204	20.452	1.00	35.67
ATOM	3264	O	LEU	468	-11.565	36.232	21.683	1.00	36.76
ATOM	3265	N	ALA	469	-11.788	35.099	19.747	1.00	34.59
ATOM	3266	CA	ALA	469	-12.077	33.820	20.387	1.00	34.17
ATOM	3267	CB	ALA	469	-12.370	32.768	19.332	1.00	33.45
ATOM	3268	C	ALA	469	-10.917	33.370	21.269	1.00	34.41
ATOM	3269	O	ALA	469	-11.101	33.073	22.453	1.00	33.82
ATOM	3270	N	LEU	470	-9.725	33.315	20.685	1.00	33.79
ATOM	3271	CA	LEU	470	-8.534	32.911	21.420	1.00	34.13
ATOM	3272	CB	LEU	470	-7.297	32.981	20.516	1.00	33.55
ATOM	3273	CG	LEU	470	-7.261	32.030	19.317	1.00	32.57
ATOM	3274	CD1	LEU	470	-6.006	32.282	18.490	1.00	32.93
ATOM	3275	CD2	LEU	470	-7.289	30.589	19.803	1.00	32.13
ATOM	3276	C	LEU	470	-8.347	33.816	22.627	1.00	34.20
ATOM	3277	O	LEU	470	-8.061	33.347	23.732	1.00	34.77
ATOM	3278	N	GLU	471	-8.516	35.119	22.417	1.00	33.48
ATOM	3279	CA	GLU	471	-8.373	36.085	23.499	1.00	33.79
ATOM	3280	CB	GLU	471	-8.594	37.506	22.978	1.00	34.37
ATOM	3281	CG	GLU	471	-8.617	38.553	24.080	1.00	35.68
ATOM	3282	CD	GLU	471	-8.985	39.930	23.565	1.00	36.13
ATOM	3283	OE1	GLU	471	-10.028	40.055	22.881	1.00	36.43
ATOM	3284	OE2	GLU	471	-8.233	40.884	23.851	1.00	35.43
ATOM	3285	C	GLU	471	-9.376	35.796	24.613	1.00	33.42
ATOM	3286	O	GLU	471	-9.022	35.778	25.793	1.00	32.79
ATOM	3287	N	ALA	472	-10.631	35.584	24.232	1.00	33.45
ATOM	3288	CA	ALA	472	-11.672	35.291	25.209	1.00	32.67
ATOM	3289	CB	ALA	472	-13.019	35.130	24.506	1.00	32.92
ATOM	3290	C	ALA	472	-11.308	34.015	25.963	1.00	32.35
ATOM	3291	O	ALA	472	-11.559	33.900	27.163	1.00	31.64
ATOM	3292	N	ALA	473	-10.702	33.067	25.252	1.00	31.77
ATOM	3293	CA	ALA	473	-10.297	31.790	25.840	1.00	32.34
ATOM	3294	CB	ALA	473	-9.802	30.850	24.743	1.00	32.34
ATOM	3295	C	ALA	473	-9.222	31.946	26.915	1.00	32.08
ATOM	3296	O	ALA	473	-9.133	31.132	27.835	1.00	32.20
ATOM	3297	N	GLY	474	-8.401	32.987	26.793	1.00	32.17
ATOM	3298	CA	GLY	474	-7.352	33.217	27.774	1.00	32.43
ATOM	3299	C	GLY	474	-5.991	33.553	27.182	1.00	33.77
ATOM	3300	O	GLY	474	-5.027	33.776	27.916	1.00	32.28
ATOM	3301	N	ALA	475	-5.905	33.589	25.856	1.00	34.78
ATOM	3302	CA	ALA	475	-4.646	33.905	25.189	1.00	36.82
ATOM	3303	CB	ALA	475	-4.820	33.850	23.679	1.00	37.72
ATOM	3304	C	ALA	475	-4.170	35.289	25.608	1.00	38.74
ATOM	3305	O	ALA	475	-4.896	36.276	25.466	1.00	38.36
ATOM	3306	N	GLN	476	-2.947	35.354	26.124	1.00	39.30
ATOM	3307	CA	GLN	476	-2.370	36.618	26.573	1.00	41.42
ATOM	3308	CB	GLN	476	-1.484	36.378	27.798	1.00	42.23
ATOM	3309	CG	GLN	476	-2.195	35.668	28.940	1.00	44.93
ATOM	3310	CD	GLN	476	-1.408	35.724	30.234	1.00	46.68
ATOM	3311	OE1	GLN	476	-1.176	36.802	30.780	1.00	48.89
ATOM	3312	NE2	GLN	476	-0.992	34.564	30.732	1.00	47.84
ATOM	3313	C	GLN	476	-1.561	37.296	25.468	1.00	41.29
ATOM	3314	O	GLN	476	-1.171	38.459	25.590	1.00	40.99
ATOM	3315	N	LEU	477	-1.320	36.558	24.389	1.00	40.91
ATOM	3316	CA	LEU	477	-0.565	37.058	23.247	1.00	39.33
ATOM	3317	CB	LEU	477	0.915	36.716	23.395	1.00	41.45
ATOM	3318	CG	LEU	477	1.785	37.738	24.121	1.00	41.89
ATOM	3319	CD1	LEU	477	3.142	37.133	24.420	1.00	42.32
ATOM	3320	CD2	LEU	477	1.927	38.977	23.252	1.00	43.54
ATOM	3321	C	LEU	477	-1.086	36.455	21.953	1.00	38.33
ATOM	3322	O	LEU	477	-1.714	35.400	21.964	1.00	36.02
ATOM	3323	N	LEU	478	-0.820	37.130	20.840	1.00	37.63
ATOM	3324	CA	LEU	478	-1.258	36.659	19.533	1.00	38.87
ATOM	3325	CB	LEU	478	-2.600	37.288	19.158	1.00	38.65
ATOM	3326	CG	LEU	478	-3.100	36.978	17.748	1.00	40.05
ATOM	3327	CD1	LEU	478	-3.361	35.488	17.611	1.00	39.92
ATOM	3328	CD2	LEU	478	-4.369	37.771	17.467	1.00	40.39
ATOM	3329	C	LEU	478	-0.227	37.002	18.465	1.00	38.90
ATOM	3330	O	LEU	478	0.424	38.047	18.528	1.00	39.77
ATOM	3331	N	VAL	479	-0.084	36.120	17.483	1.00	38.07
ATOM	3332	CA	VAL	479	0.862	36.337	16.402	1.00	37.86
ATOM	3333	CB	VAL	479	2.033	35.332	16.478	1.00	37.71
ATOM	3334	CG1	VAL	479	2.952	35.503	15.284	1.00	37.57
ATOM	3335	CG2	VAL	479	2.808	35.537	17.771	1.00	37.24
ATOM	3336	C	VAL	479	0.174	36.200	15.049	1.00	39.03
ATOM	3337	O	VAL	479	-0.453	35.176	14.760	1.00	37.57
ATOM	3338	N	LEU	480	0.282	37.246	14.231	1.00	38.25
ATOM	3339	CA	LEU	480	-0.307	37.251	12.893	1.00	38.69

ATOM	3340	CB	LEU	480	-1.029	38.574	12.622	1.00	39.15
ATOM	3341	CG	LEU	480	-2.307	38.841	13.418	1.00	39.59
ATOM	3342	CD1	LEU	480	-2.851	40.220	13.071	1.00	39.86
ATOM	3343	CD2	LEU	480	-3.340	37.766	13.098	1.00	40.86
ATOM	3344	C	LEU	480	0.816	37.067	11.884	1.00	38.26
ATOM	3345	O	LEU	480	1.818	37.776	11.935	1.00	37.03
ATOM	3346	N	GLU	481	0.648	36.115	10.972	1.00	38.45
ATOM	3347	CA	GLU	481	1.670	35.846	9.967	1.00	38.65
ATOM	3348	CB	GLU	481	2.287	34.469	10.204	1.00	38.33
ATOM	3349	CG	GLU	481	3.587	34.243	9.454	1.00	39.77
ATOM	3350	CD	GLU	481	4.111	32.833	9.611	1.00	38.78
ATOM	3351	OE1	GLU	481	4.045	32.300	10.741	1.00	36.25
ATOM	3352	OE2	GLU	481	4.597	32.266	8.605	1.00	39.84
ATOM	3353	C	GLU	481	1.123	35.914	8.546	1.00	39.06
ATOM	3354	O	GLU	481	0.152	35.234	8.209	1.00	37.10
ATOM	3355	N	CYS	482	1.768	36.732	7.719	1.00	41.00
ATOM	3356	CA	CYS	482	1.384	36.918	6.323	1.00	42.86
ATOM	3357	CB	CYS	482	1.841	35.721	5.490	1.00	42.97
ATOM	3358	SG	CYS	482	3.640	35.526	5.444	1.00	44.40
ATOM	3359	C	CYS	482	-0.110	37.139	6.142	1.00	43.47
ATOM	3360	O	CYS	482	-0.829	36.260	5.664	1.00	44.42
ATOM	3361	N	VAL	483	-0.564	38.327	6.524	1.00	45.25
ATOM	3362	CA	VAL	483	-1.969	38.697	6.411	1.00	47.42
ATOM	3363	CB	VAL	483	-2.682	38.573	7.783	1.00	47.80
ATOM	3364	CG1	VAL	483	-2.199	39.655	8.730	1.00	47.74
ATOM	3365	CG2	VAL	483	-4.182	38.643	7.603	1.00	48.49
ATOM	3366	C	VAL	483	-2.053	40.143	5.915	1.00	48.82
ATOM	3367	O	VAL	483	-1.243	40.987	6.304	1.00	49.32
ATOM	3368	N	PRO	484	-3.027	40.449	5.042	1.00	49.61
ATOM	3369	CD	PRO	484	-4.159	39.629	4.579	1.00	50.26
ATOM	3370	CA	PRO	484	-3.143	41.822	4.541	1.00	49.54
ATOM	3371	CB	PRO	484	-4.459	41.797	3.758	1.00	49.60
ATOM	3372	CG	PRO	484	-5.229	40.670	4.391	1.00	50.57
ATOM	3373	C	PRO	484	-3.138	42.850	5.666	1.00	49.40
ATOM	3374	O	PRO	484	-3.852	42.703	6.656	1.00	49.27
ATOM	3375	N	VAL	485	-2.317	43.884	5.504	1.00	49.36
ATOM	3376	CA	VAL	485	-2.184	44.942	6.500	1.00	49.33
ATOM	3377	CB	VAL	485	-1.436	46.156	5.915	1.00	48.81
ATOM	3378	CG1	VAL	485	-1.169	47.171	7.006	1.00	49.88
ATOM	3379	CG2	VAL	485	-0.134	45.707	5.273	1.00	49.01
ATOM	3380	C	VAL	485	-3.532	45.415	7.034	1.00	50.17
ATOM	3381	O	VAL	485	-3.732	45.505	8.248	1.00	49.86
ATOM	3382	N	GLU	486	-4.454	45.715	6.124	1.00	50.05
ATOM	3383	CA	GLU	486	-5.784	46.183	6.504	1.00	50.38
ATOM	3384	CB	GLU	486	-6.644	46.421	5.254	1.00	51.37
ATOM	3385	CG	GLU	486	-6.277	45.568	4.041	1.00	52.69
ATOM	3386	CD	GLU	486	-5.076	46.115	3.277	1.00	53.84
ATOM	3387	OE1	GLU	486	-5.120	47.296	2.872	1.00	54.68
ATOM	3388	OE2	GLU	486	-4.096	45.365	3.074	1.00	52.54
ATOM	3389	C	GLU	486	-6.503	45.228	7.456	1.00	50.03
ATOM	3390	O	GLU	486	-7.304	45.656	8.292	1.00	48.95
ATOM	3391	N	LEU	487	-6.215	43.936	7.330	1.00	49.68
ATOM	3392	CA	LEU	487	-6.837	42.932	8.187	1.00	50.28
ATOM	3393	CB	LEU	487	-6.709	41.543	7.553	1.00	51.28
ATOM	3394	CG	LEU	487	-7.813	40.529	7.871	1.00	52.57
ATOM	3395	CD1	LEU	487	-7.551	39.250	7.099	1.00	53.26
ATOM	3396	CD2	LEU	487	-7.875	40.253	9.361	1.00	53.45
ATOM	3397	C	LEU	487	-6.158	42.948	9.556	1.00	49.71
ATOM	3398	O	LEU	487	-6.811	42.801	10.591	1.00	48.49
ATOM	3399	N	ALA	488	-4.841	43.128	9.549	1.00	49.21
ATOM	3400	CA	ALA	488	-4.071	43.177	10.784	1.00	48.39
ATOM	3401	CB	ALA	488	-2.583	43.275	10.468	1.00	48.13
ATOM	3402	C	ALA	488	-4.513	44.380	11.607	1.00	48.23
ATOM	3403	O	ALA	488	-4.465	44.353	12.835	1.00	48.24
ATOM	3404	N	LYS	489	-4.946	45.433	10.923	1.00	48.36
ATOM	3405	CA	LYS	489	-5.399	46.646	11.593	1.00	48.70
ATOM	3406	CB	LYS	489	-5.738	47.721	10.564	1.00	49.47
ATOM	3407	CG	LYS	489	-4.615	48.018	9.591	1.00	51.46
ATOM	3408	CD	LYS	489	-5.070	48.969	8.495	1.00	53.59
ATOM	3409	CE	LYS	489	-3.995	49.127	7.431	1.00	54.03
ATOM	3410	NZ	LYS	489	-4.460	49.959	6.292	1.00	54.51
ATOM	3411	C	LYS	489	-6.626	46.357	12.450	1.00	48.17
ATOM	3412	O	LYS	489	-6.667	46.723	13.623	1.00	47.72
ATOM	3413	N	ARG	490	-7.627	45.704	11.863	1.00	48.64
ATOM	3414	CA	ARG	490	-8.842	45.377	12.605	1.00	48.86
ATOM	3415	CB	ARG	490	-9.846	44.622	11.725	1.00	49.59
ATOM	3416	CG	ARG	490	-10.743	45.511	10.884	1.00	50.73

ATOM	3417	CD	ARG	490	-12.089	44.836	10.629	1.00	51.13
ATOM	3418	NE	ARG	490	-11.966	43.619	9.832	1.00	51.85
ATOM	3419	CZ	ARG	490	-12.959	42.759	9.616	1.00	51.49
ATOM	3420	NH1	ARG	490	-14.157	42.977	10.141	1.00	51.44
ATOM	3421	NH2	ARG	490	-12.755	41.680	8.871	1.00	50.98
ATOM	3422	C	ARG	490	-8.525	44.532	13.831	1.00	48.05
ATOM	3423	O	ARG	490	-8.860	44.904	14.956	1.00	48.14
ATOM	3424	N	ILE	491	-7.874	43.394	13.603	1.00	47.40
ATOM	3425	CA	ILE	491	-7.509	42.477	14.679	1.00	46.20
ATOM	3426	CB	ILE	491	-6.621	41.323	14.150	1.00	45.42
ATOM	3427	CG2	ILE	491	-6.168	40.440	15.304	1.00	45.08
ATOM	3428	CG1	ILE	491	-7.403	40.494	13.126	1.00	45.31
ATOM	3429	CD1	ILE	491	-6.608	39.364	12.503	1.00	45.50
ATOM	3430	C	ILE	491	-6.777	43.188	15.811	1.00	45.67
ATOM	3431	O	ILE	491	-7.119	43.022	16.982	1.00	45.67
ATOM	3432	N	THR	492	-5.773	43.984	15.460	1.00	45.88
ATOM	3433	CA	THR	492	-4.998	44.715	16.456	1.00	45.57
ATOM	3434	CB	THR	492	-3.790	45.421	15.814	1.00	44.78
ATOM	3435	OG1	THR	492	-3.046	44.481	15.030	1.00	44.42
ATOM	3436	CG2	THR	492	-2.882	46.000	16.891	1.00	43.82
ATOM	3437	C	THR	492	-5.849	45.768	17.155	1.00	46.83
ATOM	3438	O	THR	492	-5.732	45.968	18.366	1.00	47.12
ATOM	3439	N	GLU	493	-6.699	46.444	16.387	1.00	47.21
ATOM	3440	CA	GLU	493	-7.568	47.483	16.934	1.00	48.40
ATOM	3441	CB	GLU	493	-7.898	48.523	15.860	1.00	49.93
ATOM	3442	CG	GLU	493	-6.713	49.354	15.407	1.00	52.65
ATOM	3443	CD	GLU	493	-7.088	50.372	14.347	1.00	54.51
ATOM	3444	OE1	GLU	493	-7.493	49.957	13.238	1.00	55.78
ATOM	3445	OE2	GLU	493	-6.980	51.585	14.623	1.00	55.00
ATOM	3446	C	GLU	493	-8.866	46.909	17.486	1.00	47.51
ATOM	3447	O	GLU	493	-9.806	47.651	17.776	1.00	48.38
ATOM	3448	N	ALA	494	-8.914	45.587	17.630	1.00	45.76
ATOM	3449	CA	ALA	494	-10.103	44.916	18.143	1.00	43.41
ATOM	3450	CB	ALA	494	-10.674	43.983	17.081	1.00	43.68
ATOM	3451	C	ALA	494	-9.790	44.129	19.407	1.00	41.36
ATOM	3452	O	ALA	494	-10.674	43.879	20.226	1.00	40.45
ATOM	3453	N	LEU	495	-8.528	43.741	19.559	1.00	39.65
ATOM	3454	CA	LEU	495	-8.103	42.974	20.723	1.00	37.83
ATOM	3455	CB	LEU	495	-7.126	41.866	20.310	1.00	37.72
ATOM	3456	CG	LEU	495	-7.606	40.812	19.305	1.00	38.81
ATOM	3457	CD1	LEU	495	-6.498	39.797	19.069	1.00	37.67
ATOM	3458	CD2	LEU	495	-8.851	40.121	19.825	1.00	39.75
ATOM	3459	C	LEU	495	-7.446	43.851	21.780	1.00	37.16
ATOM	3460	O	LEU	495	-6.866	44.895	21.473	1.00	35.11
ATOM	3461	N	ALA	496	-7.542	43.414	23.031	1.00	36.75
ATOM	3462	CA	ALA	496	-6.954	44.141	24.143	1.00	37.22
ATOM	3463	CB	ALA	496	-7.780	43.927	25.399	1.00	36.82
ATOM	3464	C	ALA	496	-5.527	43.656	24.360	1.00	37.76
ATOM	3465	O	ALA	496	-4.656	44.427	24.754	1.00	38.66
ATOM	3466	N	ILE	497	-5.291	42.374	24.097	1.00	38.35
ATOM	3467	CA	ILE	497	-3.961	41.793	24.263	1.00	38.83
ATOM	3468	CB	ILE	497	-4.015	40.246	24.284	1.00	37.92
ATOM	3469	CG2	ILE	497	-4.894	39.770	25.438	1.00	37.32
ATOM	3470	CG1	ILE	497	-4.558	39.728	22.950	1.00	38.42
ATOM	3471	CD1	ILE	497	-4.531	38.220	22.814	1.00	38.06
ATOM	3472	C	ILE	497	-3.052	42.220	23.117	1.00	39.35
ATOM	3473	O	ILE	497	-3.517	42.443	21.998	1.00	40.82
ATOM	3474	N	PRO	498	-1.739	42.333	23.377	1.00	39.89
ATOM	3475	CD	PRO	498	-1.048	42.058	24.648	1.00	38.22
ATOM	3476	CA	PRO	498	-0.786	42.737	22.336	1.00	39.86
ATOM	3477	CB	PRO	498	0.541	42.807	23.093	1.00	40.07
ATOM	3478	CG	PRO	498	0.359	41.804	24.190	1.00	39.95
ATOM	3479	C	PRO	498	-0.745	41.764	21.158	1.00	40.23
ATOM	3480	O	PRO	498	-0.824	40.551	21.341	1.00	40.13
ATOM	3481	N	VAL	499	-0.631	42.302	19.947	1.00	40.04
ATOM	3482	CA	VAL	499	-0.588	41.475	18.746	1.00	39.96
ATOM	3483	CB	VAL	499	-1.711	41.877	17.754	1.00	39.82
ATOM	3484	CG1	VAL	499	-1.678	40.978	16.527	1.00	39.71
ATOM	3485	CG2	VAL	499	-3.068	41.785	18.440	1.00	39.57
ATOM	3486	C	VAL	499	0.762	41.592	18.040	1.00	40.53
ATOM	3487	O	VAL	499	1.081	42.633	17.468	1.00	40.65
ATOM	3488	N	ILE	500	1.555	40.524	18.089	1.00	41.28
ATOM	3489	CA	ILE	500	2.865	40.509	17.444	1.00	41.57
ATOM	3490	CB	ILE	500	3.828	39.525	18.142	1.00	42.09
ATOM	3491	CG2	ILE	500	5.176	39.522	17.429	1.00	42.77
ATOM	3492	CG1	ILE	500	4.006	39.927	19.608	1.00	43.30
ATOM	3493	CD1	ILE	500	4.799	38.930	20.434	1.00	43.71

ATOM	3494	C	ILE	500	2.695	40.090	15.990	1.00	41.61
ATOM	3495	O	ILE	500	2.071	39.068	15.693	1.00	40.85
ATOM	3496	N	GLY	501	3.254	40.881	15.081	1.00	40.82
ATOM	3497	CA	GLY	501	3.118	40.572	13.672	1.00	40.29
ATOM	3498	C	GLY	501	4.371	40.098	12.968	1.00	39.63
ATOM	3499	O	GLY	501	5.494	40.348	13.405	1.00	39.28
ATOM	3500	N	ILE	502	4.154	39.401	11.860	1.00	39.72
ATOM	3501	CA	ILE	502	5.226	38.875	11.032	1.00	41.34
ATOM	3502	CB	ILE	502	5.709	37.488	11.553	1.00	41.52
ATOM	3503	CG2	ILE	502	4.522	36.582	11.830	1.00	42.33
ATOM	3504	CG1	ILE	502	6.659	36.845	10.544	1.00	42.33
ATOM	3505	CD1	ILE	502	7.958	37.584	10.375	1.00	43.95
ATOM	3506	C	ILE	502	4.676	38.766	9.609	1.00	42.06
ATOM	3507	O	ILE	502	4.029	37.782	9.245	1.00	42.10
ATOM	3508	N	GLY	503	4.922	39.801	8.812	1.00	43.11
ATOM	3509	CA	GLY	503	4.426	39.817	7.449	1.00	44.13
ATOM	3510	C	GLY	503	2.981	40.273	7.444	1.00	44.13
ATOM	3511	O	GLY	503	2.215	39.950	6.535	1.00	44.93
ATOM	3512	N	ALA	504	2.612	41.028	8.474	1.00	44.37
ATOM	3513	CA	ALA	504	1.255	41.540	8.610	1.00	45.44
ATOM	3514	CB	ALA	504	0.612	40.976	9.871	1.00	45.34
ATOM	3515	C	ALA	504	1.249	43.065	8.663	1.00	45.59
ATOM	3516	O	ALA	504	0.245	43.677	9.026	1.00	45.09
ATOM	3517	N	GLY	505	2.373	43.672	8.296	1.00	46.27
ATOM	3518	CA	GLY	505	2.465	45.119	8.316	1.00	47.16
ATOM	3519	C	GLY	505	2.955	45.644	9.652	1.00	47.80
ATOM	3520	O	GLY	505	3.187	44.870	10.581	1.00	46.72
ATOM	3521	N	ASN	506	3.106	46.963	9.749	1.00	47.19
ATOM	3522	CA	ASN	506	3.582	47.600	10.974	1.00	47.23
ATOM	3523	CB	ASN	506	4.561	48.725	10.624	1.00	47.68
ATOM	3524	CG	ASN	506	3.972	49.737	9.656	1.00	47.63
ATOM	3525	OD1	ASN	506	4.678	50.613	9.156	1.00	49.34
ATOM	3526	ND2	ASN	506	2.676	49.623	9.388	1.00	47.05
ATOM	3527	C	ASN	506	2.445	48.146	11.836	1.00	47.02
ATOM	3528	O	ASN	506	2.671	48.962	12.734	1.00	45.93
ATOM	3529	N	VAL	507	1.229	47.681	11.561	1.00	46.55
ATOM	3530	CA	VAL	507	0.046	48.106	12.300	1.00	46.94
ATOM	3531	CB	VAL	507	-1.238	47.855	11.482	1.00	47.55
ATOM	3532	CG1	VAL	507	-2.447	48.398	12.228	1.00	48.40
ATOM	3533	CG2	VAL	507	-1.117	48.506	10.117	1.00	48.35
ATOM	3534	C	VAL	507	-0.070	47.357	13.622	1.00	46.72
ATOM	3535	O	VAL	507	-0.693	47.842	14.567	1.00	47.09
ATOM	3536	N	THR	508	0.531	46.171	13.683	1.00	46.59
ATOM	3537	CA	THR	508	0.494	45.355	14.896	1.00	46.09
ATOM	3538	CB	THR	508	1.109	43.955	14.653	1.00	46.09
ATOM	3539	OG1	THR	508	2.438	44.091	14.138	1.00	46.20
ATOM	3540	CG2	THR	508	0.264	43.166	13.658	1.00	45.82
ATOM	3541	C	THR	508	1.239	46.036	16.042	1.00	45.51
ATOM	3542	O	THR	508	2.017	46.964	15.823	1.00	45.43
ATOM	3543	N	ASP	509	0.993	45.572	17.263	1.00	44.71
ATOM	3544	CA	ASP	509	1.630	46.140	18.447	1.00	44.33
ATOM	3545	CB	ASP	509	0.940	45.627	19.713	1.00	43.80
ATOM	3546	CG	ASP	509	-0.541	45.942	19.738	1.00	43.81
ATOM	3547	OD1	ASP	509	-0.899	47.139	19.730	1.00	41.97
ATOM	3548	OD2	ASP	509	-1.349	44.990	19.764	1.00	44.48
ATOM	3549	C	ASP	509	3.113	45.801	18.510	1.00	44.55
ATOM	3550	O	ASP	509	3.914	46.576	19.030	1.00	44.42
ATOM	3551	N	GLY	510	3.473	44.636	17.983	1.00	44.35
ATOM	3552	CA	GLY	510	4.864	44.225	18.001	1.00	44.15
ATOM	3553	C	GLY	510	5.269	43.479	16.749	1.00	44.41
ATOM	3554	O	GLY	510	4.445	43.221	15.870	1.00	45.25
ATOM	3555	N	GLN	511	6.547	43.129	16.667	1.00	43.48
ATOM	3556	CA	GLN	511	7.063	42.406	15.513	1.00	42.71
ATOM	3557	CB	GLN	511	7.893	43.342	14.625	1.00	42.63
ATOM	3558	CG	GLN	511	7.109	44.465	13.958	1.00	39.39
ATOM	3559	CD	GLN	511	6.088	43.957	12.959	1.00	38.03
ATOM	3560	OE1	GLN	511	6.386	43.093	12.136	1.00	36.45
ATOM	3561	NE2	GLN	511	4.878	44.502	13.017	1.00	37.24
ATOM	3562	C	GLN	511	7.930	41.238	15.959	1.00	43.26
ATOM	3563	O	GLN	511	8.402	41.197	17.094	1.00	42.66
ATOM	3564	N	ILE	512	8.130	40.287	15.055	1.00	43.65
ATOM	3565	CA	ILE	512	8.957	39.125	15.343	1.00	44.30
ATOM	3566	CB	ILE	512	8.159	38.052	16.124	1.00	43.90
ATOM	3567	CG2	ILE	512	7.079	37.448	15.234	1.00	44.70
ATOM	3568	CG1	ILE	512	9.108	36.962	16.627	1.00	43.78
ATOM	3569	CD1	ILE	512	8.463	35.995	17.595	1.00	43.66
ATOM	3570	C	ILE	512	9.472	38.536	14.028	1.00	44.66

ATOM	3571	O	ILE	512	8.843	38.689	12.979	1.00	44.73
ATOM	3572	N	LEU	513	10.625	37.879	14.087	1.00	45.11
ATOM	3573	CA	LEU	513	11.215	37.274	12.903	1.00	45.41
ATOM	3574	CB	LEU	513	11.690	38.360	11.936	1.00	47.61
ATOM	3575	CG	LEU	513	11.333	38.180	10.457	1.00	49.48
ATOM	3576	CD1	LEU	513	12.121	39.187	9.645	1.00	50.43
ATOM	3577	CD2	LEU	513	11.651	36.759	9.988	1.00	50.20
ATOM	3578	C	LEU	513	12.400	36.396	13.288	1.00	44.78
ATOM	3579	O	LEU	513	13.020	36.594	14.337	1.00	44.20
ATOM	3580	N	VAL	514	12.714	35.428	12.432	1.00	43.32
ATOM	3581	CA	VAL	514	13.834	34.532	12.683	1.00	43.17
ATOM	3582	CB	VAL	514	13.914	33.413	11.623	1.00	43.69
ATOM	3583	CG1	VAL	514	15.057	32.460	11.960	1.00	43.51
ATOM	3584	CG2	VAL	514	12.594	32.669	11.554	1.00	43.46
ATOM	3585	C	VAL	514	15.124	35.342	12.638	1.00	42.43
ATOM	3586	O	VAL	514	15.377	36.069	11.679	1.00	42.48
ATOM	3587	N	MET	515	15.931	35.214	13.684	1.00	41.21
ATOM	3588	CA	MET	515	17.190	35.935	13.772	1.00	40.22
ATOM	3589	CB	MET	515	17.929	35.543	15.050	1.00	38.49
ATOM	3590	CG	MET	515	18.189	34.057	15.180	1.00	37.77
ATOM	3591	SD	MET	515	19.693	33.741	16.107	1.00	37.43
ATOM	3592	CE	MET	515	20.902	33.853	14.776	1.00	39.24
ATOM	3593	C	MET	515	18.086	35.669	12.569	1.00	40.31
ATOM	3594	O	MET	515	18.749	36.575	12.063	1.00	39.94
ATOM	3595	N	HIS	516	18.100	34.420	12.116	1.00	40.39
ATOM	3596	CA	HIS	516	18.916	34.011	10.978	1.00	41.60
ATOM	3597	CB	HIS	516	18.683	32.523	10.694	1.00	40.66
ATOM	3598	CG	HIS	516	19.230	31.619	11.755	1.00	39.06
ATOM	3599	CD2	HIS	516	18.682	31.162	12.906	1.00	37.78
ATOM	3600	ND1	HIS	516	20.517	31.128	11.725	1.00	38.08
ATOM	3601	CE1	HIS	516	20.740	30.409	12.810	1.00	35.88
ATOM	3602	NE2	HIS	516	19.642	30.415	13.544	1.00	37.95
ATOM	3603	C	HIS	516	18.657	34.836	9.718	1.00	42.74
ATOM	3604	O	HIS	516	19.558	35.025	8.898	1.00	42.29
ATOM	3605	N	ASP	517	17.429	35.323	9.567	1.00	43.70
ATOM	3606	CA	ASP	517	17.064	36.134	8.410	1.00	45.81
ATOM	3607	CB	ASP	517	15.640	35.807	7.953	1.00	45.49
ATOM	3608	CG	ASP	517	15.572	34.538	7.124	1.00	47.31
ATOM	3609	OD1	ASP	517	16.287	34.456	6.104	1.00	47.95
ATOM	3610	OD2	ASP	517	14.803	33.627	7.481	1.00	48.46
ATOM	3611	C	ASP	517	17.175	37.625	8.708	1.00	46.65
ATOM	3612	O	ASP	517	17.175	38.452	7.794	1.00	47.65
ATOM	3613	N	ALA	518	17.272	37.965	9.988	1.00	47.52
ATOM	3614	CA	ALA	518	17.379	39.358	10.404	1.00	48.26
ATOM	3615	CB	ALA	518	16.748	39.540	11.780	1.00	47.98
ATOM	3616	C	ALA	518	18.833	39.817	10.432	1.00	48.77
ATOM	3617	O	ALA	518	19.113	41.014	10.470	1.00	48.43
ATOM	3618	N	PHE	519	19.758	38.863	10.412	1.00	49.79
ATOM	3619	CA	PHE	519	21.178	39.193	10.437	1.00	50.88
ATOM	3620	CB	PHE	519	21.810	38.675	11.723	1.00	51.40
ATOM	3621	CG	PHE	519	21.076	39.092	12.957	1.00	52.43
ATOM	3622	CD1	PHE	519	20.855	40.436	13.228	1.00	53.32
ATOM	3623	CD2	PHE	519	20.594	38.141	13.845	1.00	53.65
ATOM	3624	CE1	PHE	519	20.160	40.829	14.369	1.00	53.53
ATOM	3625	CE2	PHE	519	19.899	38.522	14.988	1.00	54.19
ATOM	3626	CZ	PHE	519	19.682	39.869	15.251	1.00	53.89
ATOM	3627	C	PHE	519	21.915	38.622	9.234	1.00	51.31
ATOM	3628	O	PHE	519	23.130	38.413	9.277	1.00	51.70
ATOM	3629	N	GLY	520	21.168	38.369	8.165	1.00	51.46
ATOM	3630	CA	GLY	520	21.752	37.832	6.950	1.00	52.29
ATOM	3631	C	GLY	520	22.668	36.646	7.172	1.00	52.89
ATOM	3632	O	GLY	520	23.880	36.740	6.973	1.00	52.01
ATOM	3633	N	ILE	521	22.085	35.526	7.582	1.00	53.71
ATOM	3634	CA	ILE	521	22.844	34.309	7.830	1.00	54.45
ATOM	3635	CB	ILE	521	22.669	33.839	9.287	1.00	53.41
ATOM	3636	CG2	ILE	521	23.483	32.580	9.531	1.00	52.98
ATOM	3637	CG1	ILE	521	23.109	34.948	10.243	1.00	52.97
ATOM	3638	CD1	ILE	521	22.872	34.629	11.702	1.00	51.81
ATOM	3639	C	ILE	521	22.375	33.201	6.894	1.00	55.91
ATOM	3640	O	ILE	521	23.163	32.358	6.467	1.00	56.51
ATOM	3641	N	THR	522	21.089	33.216	6.566	1.00	57.60
ATOM	3642	CA	THR	522	20.517	32.203	5.692	1.00	60.04
ATOM	3643	CB	THR	522	19.147	31.738	6.218	1.00	60.24
ATOM	3644	OG1	THR	522	18.278	32.869	6.353	1.00	59.37
ATOM	3645	CG2	THR	522	19.301	31.058	7.569	1.00	60.73
ATOM	3646	C	THR	522	20.355	32.683	4.252	1.00	61.62
ATOM	3647	O	THR	522	19.702	33.695	3.992	1.00	61.80



ATOM	3648	N	GLY	523	20.959	31.942	3.324	1.00	63.15
ATOM	3649	CA	GLY	523	20.881	32.276	1.911	1.00	65.08
ATOM	3650	C	GLY	523	20.874	33.762	1.601	1.00	66.40
ATOM	3651	O	GLY	523	21.492	34.563	2.305	1.00	66.60
ATOM	3652	N	GLY	524	20.170	34.128	0.536	1.00	66.95
ATOM	3653	CA	GLY	524	20.092	35.522	0.146	1.00	67.88
ATOM	3654	C	GLY	524	18.666	35.958	-0.116	1.00	68.78
ATOM	3655	O	GLY	524	18.280	37.078	0.220	1.00	69.41
ATOM	3656	N	HIS	525	17.880	35.072	-0.719	1.00	69.01
ATOM	3657	CA	HIS	525	16.487	35.376	-1.023	1.00	69.66
ATOM	3658	CB	HIS	525	15.987	34.488	-2.165	1.00	70.70
ATOM	3659	CG	HIS	525	16.435	34.939	-3.520	1.00	71.89
ATOM	3660	CD2	HIS	525	17.174	34.317	-4.469	1.00	72.56
ATOM	3661	ND1	HIS	525	16.105	36.172	-4.039	1.00	72.33
ATOM	3662	CE1	HIS	525	16.620	36.290	-5.250	1.00	72.53
ATOM	3663	NE2	HIS	525	17.273	35.178	-5.535	1.00	72.71
ATOM	3664	C	HIS	525	15.578	35.208	0.191	1.00	69.38
ATOM	3665	O	HIS	525	14.651	34.398	0.177	1.00	69.45
ATOM	3666	N	ILE	526	15.849	35.979	1.240	1.00	68.69
ATOM	3667	CA	ILE	526	15.047	35.922	2.457	1.00	67.80
ATOM	3668	CB	ILE	526	15.558	36.927	3.512	1.00	67.79
ATOM	3669	CG2	ILE	526	17.003	36.613	3.872	1.00	68.10
ATOM	3670	CG1	ILE	526	15.431	38.354	2.974	1.00	67.42
ATOM	3671	CD1	ILE	526	15.759	39.424	3.991	1.00	67.22
ATOM	3672	C	ILE	526	13.601	36.271	2.116	1.00	67.09
ATOM	3673	O	ILE	526	13.325	36.817	1.050	1.00	67.20
ATOM	3674	N	PRO	527	12.657	35.959	3.018	1.00	66.11
ATOM	3675	CD	PRO	527	12.814	35.365	4.356	1.00	66.02
ATOM	3676	CA	PRO	527	11.251	36.270	2.747	1.00	65.35
ATOM	3677	CB	PRO	527	10.532	35.712	3.974	1.00	65.35
ATOM	3678	CG	PRO	527	11.563	35.834	5.053	1.00	65.87
ATOM	3679	C	PRO	527	11.023	37.768	2.555	1.00	64.42
ATOM	3680	O	PRO	527	11.728	38.591	3.141	1.00	64.06
ATOM	3681	N	LYS	528	10.038	38.110	1.729	1.00	63.60
ATOM	3682	CA	LYS	528	9.719	39.506	1.440	1.00	62.63
ATOM	3683	CB	LYS	528	8.504	39.596	0.507	1.00	63.43
ATOM	3684	CG	LYS	528	8.568	38.689	-0.715	1.00	64.83
ATOM	3685	CD	LYS	528	8.054	37.291	-0.389	1.00	65.58
ATOM	3686	CE	LYS	528	8.237	36.336	-1.559	1.00	65.50
ATOM	3687	NZ	LYS	528	9.678	36.076	-1.831	1.00	65.11
ATOM	3688	C	LYS	528	9.443	40.317	2.702	1.00	61.12
ATOM	3689	O	LYS	528	9.874	41.465	2.815	1.00	60.81
ATOM	3690	N	PHE	529	8.726	39.715	3.648	1.00	59.49
ATOM	3691	CA	PHE	529	8.379	40.383	4.899	1.00	57.86
ATOM	3692	CB	PHE	529	7.258	39.611	5.608	1.00	57.20
ATOM	3693	CG	PHE	529	7.586	38.168	5.885	1.00	56.39
ATOM	3694	CD1	PHE	529	8.487	37.820	6.887	1.00	55.45
ATOM	3695	CD2	PHE	529	6.990	37.153	5.140	1.00	56.22
ATOM	3696	CE1	PHE	529	8.787	36.483	7.146	1.00	55.50
ATOM	3697	CE2	PHE	529	7.283	35.813	5.390	1.00	55.77
ATOM	3698	CZ	PHE	529	8.183	35.478	6.396	1.00	55.99
ATOM	3699	C	PHE	529	9.564	40.562	5.844	1.00	56.78
ATOM	3700	O	PHE	529	9.463	41.272	6.843	1.00	56.44
ATOM	3701	N	ALA	530	10.684	39.923	5.525	1.00	55.87
ATOM	3702	CA	ALA	530	11.878	40.015	6.357	1.00	55.61
ATOM	3703	CB	ALA	530	12.612	38.681	6.366	1.00	55.37
ATOM	3704	C	ALA	530	12.809	41.114	5.864	1.00	55.36
ATOM	3705	O	ALA	530	12.597	41.687	4.795	1.00	55.63
ATOM	3706	N	LYS	531	13.842	41.399	6.651	1.00	55.00
ATOM	3707	CA	LYS	531	14.816	42.425	6.301	1.00	54.83
ATOM	3708	CB	LYS	531	14.303	43.806	6.712	1.00	54.88
ATOM	3709	CG	LYS	531	15.283	44.932	6.428	1.00	55.59
ATOM	3710	CD	LYS	531	14.726	46.280	6.851	1.00	55.93
ATOM	3711	CE	LYS	531	15.716	47.397	6.560	1.00	56.02
ATOM	3712	NZ	LYS	531	15.170	48.729	6.933	1.00	55.93
ATOM	3713	C	LYS	531	16.161	42.166	6.970	1.00	54.84
ATOM	3714	O	LYS	531	16.220	41.840	8.154	1.00	54.41
ATOM	3715	N	ASN	532	17.237	42.315	6.203	1.00	54.78
ATOM	3716	CA	ASN	532	18.591	42.110	6.708	1.00	54.97
ATOM	3717	CB	ASN	532	19.544	41.805	5.548	1.00	54.87
ATOM	3718	CG	ASN	532	20.931	41.399	6.017	1.00	53.96
ATOM	3719	OD1	ASN	532	21.469	41.963	6.970	1.00	54.05
ATOM	3720	ND2	ASN	532	21.522	40.425	5.335	1.00	54.07
ATOM	3721	C	ASN	532	19.061	43.373	7.424	1.00	55.48
ATOM	3722	O	ASN	532	19.215	44.422	6.798	1.00	56.16
ATOM	3723	N	PHE	533	19.290	43.275	8.730	1.00	55.65
ATOM	3724	CA	PHE	533	19.744	44.425	9.503	1.00	56.07

ATOM	3725	CB	PHE	533	19.055	44.463	10.871	1.00	56.06
ATOM	3726	CG	PHE	533	17.607	44.863	10.812	1.00	56.39
ATOM	3727	CD1	PHE	533	16.649	43.993	10.303	1.00	56.26
ATOM	3728	CD2	PHE	533	17.204	46.124	11.245	1.00	56.64
ATOM	3729	CE1	PHE	533	15.311	44.371	10.228	1.00	56.57
ATOM	3730	CE2	PHE	533	15.868	46.511	11.173	1.00	56.36
ATOM	3731	CZ	PHE	533	14.921	45.634	10.663	1.00	56.79
ATOM	3732	C	PHE	533	21.255	44.446	9.695	1.00	56.80
ATOM	3733	O	PHE	533	21.808	45.424	10.199	1.00	56.46
ATOM	3734	N	LEU	534	21.920	43.367	9.297	1.00	57.79
ATOM	3735	CA	LEU	534	23.370	43.281	9.427	1.00	58.91
ATOM	3736	CB	LEU	534	23.811	41.820	9.535	1.00	58.06
ATOM	3737	CG	LEU	534	25.310	41.588	9.748	1.00	57.55
ATOM	3738	CD1	LEU	534	25.744	42.191	11.076	1.00	56.50
ATOM	3739	CD2	LEU	534	25.605	40.098	9.718	1.00	57.05
ATOM	3740	C	LEU	534	24.041	43.928	8.220	1.00	60.52
ATOM	3741	O	LEU	534	25.201	44.337	8.284	1.00	60.29
ATOM	3742	N	ALA	535	23.303	44.010	7.118	1.00	62.13
ATOM	3743	CA	ALA	535	23.816	44.611	5.892	1.00	64.07
ATOM	3744	CB	ALA	535	22.930	44.228	4.713	1.00	64.06
ATOM	3745	C	ALA	535	23.859	46.127	6.048	1.00	65.26
ATOM	3746	O	ALA	535	24.618	46.817	5.363	1.00	65.11
ATOM	3747	N	GLU	536	23.034	46.633	6.959	1.00	66.37
ATOM	3748	CA	GLU	536	22.955	48.064	7.233	1.00	67.19
ATOM	3749	CB	GLU	536	21.583	48.408	7.823	1.00	68.14
ATOM	3750	CG	GLU	536	20.397	47.779	7.094	1.00	69.56
ATOM	3751	CD	GLU	536	20.159	48.366	5.713	1.00	70.40
ATOM	3752	OE1	GLU	536	21.070	48.290	4.861	1.00	71.10
ATOM	3753	OE2	GLU	536	19.053	48.904	5.481	1.00	70.27
ATOM	3754	C	GLU	536	24.050	48.445	8.228	1.00	66.96
ATOM	3755	O	GLU	536	24.057	49.552	8.765	1.00	67.14
ATOM	3756	N	THR	537	24.969	47.515	8.472	1.00	66.36
ATOM	3757	CA	THR	537	26.069	47.741	9.402	1.00	65.80
ATOM	3758	CB	THR	537	25.557	47.783	10.860	1.00	65.76
ATOM	3759	OG1	THR	537	26.640	48.104	11.742	1.00	65.38
ATOM	3760	CG2	THR	537	24.962	46.436	11.256	1.00	65.93
ATOM	3761	C	THR	537	27.121	46.637	9.269	1.00	65.16
ATOM	3762	O	THR	537	27.200	45.962	8.242	1.00	65.26
ATOM	3763	N	GLY	538	27.931	46.463	10.308	1.00	64.34
ATOM	3764	CA	GLY	538	28.959	45.439	10.282	1.00	63.04
ATOM	3765	C	GLY	538	29.062	44.734	11.617	1.00	62.37
ATOM	3766	O	GLY	538	30.023	44.011	11.883	1.00	62.04
ATOM	3767	N	ASP	539	28.060	44.949	12.462	1.00	61.49
ATOM	3768	CA	ASP	539	28.021	44.342	13.785	1.00	60.74
ATOM	3769	CB	ASP	539	28.268	45.407	14.857	1.00	62.06
ATOM	3770	CG	ASP	539	28.250	44.838	16.262	1.00	63.43
ATOM	3771	OD1	ASP	539	28.222	45.633	17.226	1.00	63.49
ATOM	3772	OD2	ASP	539	28.270	43.595	16.402	1.00	64.82
ATOM	3773	C	ASP	539	26.666	43.684	14.023	1.00	59.48
ATOM	3774	O	ASP	539	25.624	44.258	13.705	1.00	58.85
ATOM	3775	N	ILE	540	26.685	42.478	14.582	1.00	58.12
ATOM	3776	CA	ILE	540	25.455	41.747	14.867	1.00	56.14
ATOM	3777	CB	ILE	540	25.760	40.355	15.456	1.00	57.05
ATOM	3778	CG2	ILE	540	24.458	39.622	15.772	1.00	56.67
ATOM	3779	CG1	ILE	540	26.596	39.549	14.461	1.00	56.82
ATOM	3780	CD1	ILE	540	27.153	38.264	15.030	1.00	57.97
ATOM	3781	C	ILE	540	24.612	42.534	15.864	1.00	54.58
ATOM	3782	O	ILE	540	23.410	42.714	15.669	1.00	53.94
ATOM	3783	N	ARG	541	25.252	43.002	16.932	1.00	52.23
ATOM	3784	CA	ARG	541	24.564	43.779	17.955	1.00	50.98
ATOM	3785	CB	ARG	541	25.524	44.108	19.100	1.00	49.65
ATOM	3786	CG	ARG	541	26.008	42.882	19.852	1.00	48.84
ATOM	3787	CD	ARG	541	27.008	43.238	20.938	1.00	47.15
ATOM	3788	NE	ARG	541	27.476	42.053	21.655	1.00	47.04
ATOM	3789	CZ	ARG	541	28.122	41.038	21.087	1.00	47.57
ATOM	3790	NH1	ARG	541	28.383	41.054	19.787	1.00	47.71
ATOM	3791	NH2	ARG	541	28.509	40.004	21.821	1.00	47.56
ATOM	3792	C	ARG	541	23.999	45.066	17.359	1.00	50.80
ATOM	3793	O	ARG	541	22.915	45.515	17.739	1.00	50.76
ATOM	3794	N	ALA	542	24.735	45.654	16.422	1.00	50.14
ATOM	3795	CA	ALA	542	24.297	46.882	15.770	1.00	49.97
ATOM	3796	CB	ALA	542	25.369	47.376	14.806	1.00	49.83
ATOM	3797	C	ALA	542	22.996	46.614	15.020	1.00	49.62
ATOM	3798	O	ALA	542	22.065	47.417	15.064	1.00	49.97
ATOM	3799	N	ALA	543	22.942	45.479	14.332	1.00	49.14
ATOM	3800	CA	ALA	543	21.753	45.095	13.583	1.00	48.56
ATOM	3801	CB	ALA	543	22.022	43.819	12.794	1.00	47.62

ATOM	3802	C	ALA	543	20.593	44.882	14.554	1.00	48.49
ATOM	3803	O	ALA	543	19.431	45.095	14.205	1.00	48.03
ATOM	3804	N	VAL	544	20.923	44.462	15.773	1.00	47.91
ATOM	3805	CA	VAL	544	19.921	44.220	16.807	1.00	48.15
ATOM	3806	CB	VAL	544	20.547	43.544	18.054	1.00	47.72
ATOM	3807	CG1	VAL	544	19.493	43.354	19.133	1.00	48.12
ATOM	3808	CG2	VAL	544	21.151	42.203	17.670	1.00	47.67
ATOM	3809	C	VAL	544	19.280	45.535	17.234	1.00	48.25
ATOM	3810	O	VAL	544	18.055	45.670	17.229	1.00	48.02
ATOM	3811	N	ARG	545	20.113	46.503	17.602	1.00	47.95
ATOM	3812	CA	ARG	545	19.613	47.804	18.025	1.00	48.51
ATOM	3813	CB	ARG	545	20.771	48.699	18.471	1.00	47.82
ATOM	3814	CG	ARG	545	21.478	48.204	19.722	1.00	49.07
ATOM	3815	CD	ARG	545	22.351	49.289	20.335	1.00	49.84
ATOM	3816	NE	ARG	545	23.473	49.659	19.477	1.00	51.11
ATOM	3817	CZ	ARG	545	24.521	48.877	19.235	1.00	51.17
ATOM	3818	NH1	ARG	545	24.596	47.674	19.787	1.00	52.25
ATOM	3819	NH2	ARG	545	25.497	49.300	18.444	1.00	51.42
ATOM	3820	C	ARG	545	18.826	48.481	16.908	1.00	48.39
ATOM	3821	O	ARG	545	17.806	49.119	17.161	1.00	47.66
ATOM	3822	N	GLN	546	19.296	48.338	15.674	1.00	49.12
ATOM	3823	CA	GLN	546	18.610	48.941	14.538	1.00	50.17
ATOM	3824	CB	GLN	546	19.428	48.766	13.257	1.00	51.51
ATOM	3825	CG	GLN	546	18.835	49.481	12.052	1.00	54.04
ATOM	3826	CD	GLN	546	19.635	49.256	10.786	1.00	55.80
ATOM	3827	OE1	GLN	546	20.829	49.555	10.731	1.00	57.97
ATOM	3828	NE2	GLN	546	18.980	48.730	9.757	1.00	56.73
ATOM	3829	C	GLN	546	17.245	48.282	14.369	1.00	50.05
ATOM	3830	O	GLN	546	16.268	48.936	14.001	1.00	49.98
ATOM	3831	N	TYR	547	17.189	46.982	14.640	1.00	49.32
ATOM	3832	CA	TYR	547	15.948	46.227	14.537	1.00	48.54
ATOM	3833	CB	TYR	547	16.203	44.750	14.840	1.00	49.78
ATOM	3834	CG	TYR	547	14.944	43.925	14.955	1.00	50.44
ATOM	3835	CD1	TYR	547	14.056	43.822	13.885	1.00	51.69
ATOM	3836	CE1	TYR	547	12.893	43.064	13.984	1.00	51.91
ATOM	3837	CD2	TYR	547	14.637	43.249	16.135	1.00	51.50
ATOM	3838	CE2	TYR	547	13.476	42.487	16.247	1.00	51.56
ATOM	3839	CZ	TYR	547	12.610	42.399	15.168	1.00	52.16
ATOM	3840	OH	TYR	547	11.463	41.646	15.271	1.00	51.53
ATOM	3841	C	TYR	547	14.926	46.781	15.523	1.00	47.25
ATOM	3842	O	TYR	547	13.793	47.092	15.155	1.00	46.01
ATOM	3843	N	MET	548	15.345	46.902	16.779	1.00	45.68
ATOM	3844	CA	MET	548	14.491	47.421	17.839	1.00	45.05
ATOM	3845	CB	MET	548	15.273	47.471	19.153	1.00	43.72
ATOM	3846	CG	MET	548	15.852	46.136	19.574	1.00	44.22
ATOM	3847	SD	MET	548	17.010	46.272	20.949	1.00	43.86
ATOM	3848	CE	MET	548	15.902	46.115	22.333	1.00	45.50
ATOM	3849	C	MET	548	14.016	48.823	17.479	1.00	45.08
ATOM	3850	O	MET	548	12.859	49.186	17.708	1.00	43.72
ATOM	3851	N	ALA	549	14.929	49.603	16.910	1.00	45.01
ATOM	3852	CA	ALA	549	14.643	50.973	16.515	1.00	45.18
ATOM	3853	CB	ALA	549	15.923	51.651	16.044	1.00	44.23
ATOM	3854	C	ALA	549	13.581	51.042	15.424	1.00	45.78
ATOM	3855	O	ALA	549	12.518	51.625	15.626	1.00	45.86
ATOM	3856	N	GLU	550	13.867	50.442	14.272	1.00	46.83
ATOM	3857	CA	GLU	550	12.925	50.460	13.156	1.00	48.63
ATOM	3858	CB	GLU	550	13.470	49.657	11.975	1.00	49.72
ATOM	3859	CG	GLU	550	14.515	50.394	11.160	1.00	51.94
ATOM	3860	CD	GLU	550	14.779	49.726	9.828	1.00	53.48
ATOM	3861	OE1	GLU	550	13.799	49.459	9.097	1.00	54.23
ATOM	3862	OE2	GLU	550	15.961	49.474	9.506	1.00	55.31
ATOM	3863	C	GLU	550	11.535	49.946	13.514	1.00	49.36
ATOM	3864	O	GLU	550	10.530	50.507	13.073	1.00	49.22
ATOM	3865	N	VAL	551	11.477	48.879	14.303	1.00	48.98
ATOM	3866	CA	VAL	551	10.199	48.310	14.707	1.00	49.91
ATOM	3867	CB	VAL	551	10.397	47.020	15.538	1.00	49.52
ATOM	3868	CG1	VAL	551	9.066	46.544	16.094	1.00	49.11
ATOM	3869	CG2	VAL	551	11.017	45.937	14.668	1.00	49.69
ATOM	3870	C	VAL	551	9.409	49.318	15.536	1.00	50.71
ATOM	3871	O	VAL	551	8.193	49.444	15.385	1.00	50.53
ATOM	3872	N	GLU	552	10.110	50.036	16.408	1.00	51.60
ATOM	3873	CA	GLU	552	9.481	51.032	17.264	1.00	52.58
ATOM	3874	CB	GLU	552	10.379	51.324	18.468	1.00	53.60
ATOM	3875	CG	GLU	552	9.753	52.241	19.503	1.00	55.39
ATOM	3876	CD	GLU	552	10.650	52.453	20.704	1.00	56.32
ATOM	3877	OE1	GLU	552	10.199	53.087	21.682	1.00	56.45
ATOM	3878	OE2	GLU	552	11.808	51.987	20.670	1.00	57.66

ATOM	3879	C	GLU	552	9.217	52.323	16.492	1.00	53.07
ATOM	3880	O	GLU	552	8.295	53.073	16.811	1.00	52.73
ATOM	3881	N	SER	553	10.035	52.570	15.474	1.00	52.74
ATOM	3882	CA	SER	553	9.903	53.762	14.651	1.00	53.94
ATOM	3883	CB	SER	553	11.230	54.065	13.956	1.00	54.05
ATOM	3884	OG	SER	553	12.264	54.253	14.908	1.00	56.04
ATOM	3885	C	SER	553	8.811	53.583	13.603	1.00	54.10
ATOM	3886	O	SER	553	8.314	54.556	13.034	1.00	53.78
ATOM	3887	N	GLY	554	8.439	52.333	13.356	1.00	53.73
ATOM	3888	CA	GLY	554	7.413	52.052	12.371	1.00	53.14
ATOM	3889	C	GLY	554	8.037	51.889	11.003	1.00	53.03
ATOM	3890	O	GLY	554	7.353	51.571	10.030	1.00	52.59
ATOM	3891	N	VAL	555	9.347	52.109	10.931	1.00	52.96
ATOM	3892	CA	VAL	555	10.079	51.986	9.677	1.00	52.87
ATOM	3893	CB	VAL	555	11.565	52.367	9.862	1.00	53.58
ATOM	3894	CG1	VAL	555	12.285	52.329	8.523	1.00	52.84
ATOM	3895	CG2	VAL	555	11.671	53.749	10.485	1.00	53.08
ATOM	3896	C	VAL	555	9.998	50.554	9.156	1.00	52.67
ATOM	3897	O	VAL	555	9.908	50.324	7.948	1.00	52.23
ATOM	3898	N	TYR	556	10.031	49.595	10.076	1.00	52.50
ATOM	3899	CA	TYR	556	9.960	48.183	9.719	1.00	51.70
ATOM	3900	CB	TYR	556	11.227	47.456	10.174	1.00	51.86
ATOM	3901	CG	TYR	556	11.214	45.977	9.868	1.00	51.09
ATOM	3902	CD1	TYR	556	11.254	45.519	8.552	1.00	50.94
ATOM	3903	CE1	TYR	556	11.189	44.160	8.260	1.00	51.28
ATOM	3904	CD2	TYR	556	11.113	45.034	10.892	1.00	51.14
ATOM	3905	CE2	TYR	556	11.047	43.670	10.613	1.00	50.47
ATOM	3906	CZ	TYR	556	11.083	43.241	9.295	1.00	50.81
ATOM	3907	OH	TYR	556	10.995	41.900	9.000	1.00	50.30
ATOM	3908	C	TYR	556	8.741	47.531	10.363	1.00	51.68
ATOM	3909	O	TYR	556	8.529	47.653	11.569	1.00	51.15
ATOM	3910	N	PRO	557	7.927	46.820	9.565	1.00	52.14
ATOM	3911	CD	PRO	557	6.797	46.019	10.067	1.00	52.66
ATOM	3912	CA	PRO	557	8.100	46.621	8.120	1.00	52.90
ATOM	3913	CB	PRO	557	7.223	45.405	7.840	1.00	52.64
ATOM	3914	CG	PRO	557	6.089	45.614	8.786	1.00	52.85
ATOM	3915	C	PRO	557	7.684	47.839	7.292	1.00	53.09
ATOM	3916	O	PRO	557	6.762	48.566	7.664	1.00	53.40
ATOM	3917	N	GLY	558	8.366	48.050	6.170	1.00	53.27
ATOM	3918	CA	GLY	558	8.055	49.181	5.316	1.00	53.66
ATOM	3919	C	GLY	558	6.840	48.937	4.444	1.00	54.13
ATOM	3920	O	GLY	558	5.703	49.072	4.900	1.00	54.10
ATOM	3921	N	GLU	559	7.081	48.580	3.186	1.00	53.86
ATOM	3922	CA	GLU	559	6.001	48.309	2.245	1.00	54.22
ATOM	3923	CB	GLU	559	5.822	49.482	1.276	1.00	55.40
ATOM	3924	CG	GLU	559	4.536	49.415	0.461	1.00	56.21
ATOM	3925	CD	GLU	559	3.295	49.590	1.321	1.00	56.50
ATOM	3926	OE1	GLU	559	2.175	49.406	0.800	1.00	57.07
ATOM	3927	OE2	GLU	559	3.440	49.916	2.518	1.00	57.08
ATOM	3928	C	GLU	559	6.295	47.039	1.452	1.00	54.13
ATOM	3929	O	GLU	559	5.378	46.336	1.026	1.00	53.98
ATOM	3930	N	GLU	560	7.576	46.751	1.253	1.00	53.68
ATOM	3931	CA	GLU	560	7.977	45.560	0.515	1.00	54.17
ATOM	3932	CB	GLU	560	9.400	45.719	-0.027	1.00	54.49
ATOM	3933	CG	GLU	560	9.861	47.161	-0.132	1.00	55.28
ATOM	3934	CD	GLU	560	10.388	47.700	1.186	1.00	55.88
ATOM	3935	OE1	GLU	560	11.523	47.335	1.563	1.00	55.57
ATOM	3936	OE2	GLU	560	9.668	48.478	1.850	1.00	55.73
ATOM	3937	C	GLU	560	7.912	44.352	1.441	1.00	53.99
ATOM	3938	O	GLU	560	8.119	43.215	1.014	1.00	54.19
ATOM	3939	N	HIS	561	7.621	44.616	2.712	1.00	53.66
ATOM	3940	CA	HIS	561	7.527	43.571	3.727	1.00	53.03
ATOM	3941	CB	HIS	561	8.320	43.975	4.972	1.00	53.33
ATOM	3942	CG	HIS	561	9.687	44.507	4.676	1.00	52.71
ATOM	3943	CD2	HIS	561	10.242	45.720	4.914	1.00	52.67
ATOM	3944	ND1	HIS	561	10.662	43.755	4.057	1.00	52.82
ATOM	3945	CE1	HIS	561	11.758	44.482	3.926	1.00	53.52
ATOM	3946	NE2	HIS	561	11.529	45.677	4.439	1.00	52.58
ATOM	3947	C	HIS	561	6.073	43.340	4.124	1.00	52.40
ATOM	3948	O	HIS	561	5.783	42.508	4.983	1.00	52.28
ATOM	3949	N	SER	562	5.164	44.081	3.495	1.00	51.41
ATOM	3950	CA	SER	562	3.741	43.973	3.794	1.00	50.51
ATOM	3951	CB	SER	562	3.172	45.359	4.106	1.00	50.14
ATOM	3952	OG	SER	562	3.952	46.021	5.086	1.00	49.54
ATOM	3953	C	SER	562	2.956	43.350	2.644	1.00	50.99
ATOM	3954	O	SER	562	3.381	43.398	1.488	1.00	50.00
ATOM	3955	N	PHE	563	1.808	42.764	2.966	1.00	50.96

ATOM	3956	CA	PHE	563	0.966	42.144	1.953	1.00	51.90
ATOM	3957	CB	PHE	563	0.792	40.649	2.230	1.00	51.88
ATOM	3958	CG	PHE	563	2.085	39.889	2.291	1.00	52.62
ATOM	3959	CD1	PHE	563	2.800	39.800	3.482	1.00	52.62
ATOM	3960	CD2	PHE	563	2.598	39.274	1.154	1.00	52.42
ATOM	3961	CE1	PHE	563	4.008	39.107	3.540	1.00	53.30
ATOM	3962	CE2	PHE	563	3.805	38.580	1.200	1.00	53.30
ATOM	3963	CZ	PHE	563	4.512	38.496	2.397	1.00	53.09
ATOM	3964	C	PHE	563	-0.396	42.820	1.925	1.00	52.18
ATOM	3965	O	PHE	563	-0.847	43.371	2.930	1.00	51.96
ATOM	3966	N	HIS	564	-1.051	42.775	0.771	1.00	53.34
ATOM	3967	CA	HIS	564	-2.362	43.394	0.617	1.00	54.06
ATOM	3968	CB	HIS	564	-2.228	44.709	-0.155	1.00	54.83
ATOM	3969	CG	HIS	564	-1.305	45.696	0.493	1.00	55.50
ATOM	3970	CD2	HIS	564	-0.118	46.206	0.086	1.00	55.30
ATOM	3971	ND1	HIS	564	-1.564	46.262	1.722	1.00	55.51
ATOM	3972	CE1	HIS	564	-0.577	47.079	2.046	1.00	55.52
ATOM	3973	NE2	HIS	564	0.314	47.062	1.070	1.00	55.47
ATOM	3974	C	HIS	564	-3.315	42.457	-0.111	1.00	54.29
ATOM	3975	O	HIS	564	-4.385	42.152	0.454	1.00	54.03
ATOM	3976	OXT	HIS	564	-2.978	42.040	-1.238	1.00	55.99
ATOM	3977	C1	KPL	565	8.381	32.905	12.296	1.00	41.48
ATOM	3978	C2	KPL	565	7.795	33.008	13.719	1.00	41.70
ATOM	3979	C3	KPL	565	8.747	33.842	14.588	1.00	41.04
ATOM	3980	C4	KPL	565	6.432	33.729	13.657	1.00	42.99
ATOM	3981	O1	KPL	565	5.502	32.994	12.852	1.00	47.23
ATOM	3982	C5	KPL	565	7.641	31.587	14.333	1.00	41.12
ATOM	3983	O2	KPL	565	6.548	31.189	14.686	1.00	40.23
ATOM	3984	C6	KPL	565	8.827	30.664	14.510	1.00	39.79
ATOM	3985	O3	KPL	565	9.940	31.012	14.179	1.00	41.42
ATOM	3986	O4	KPL	565	8.649	29.440	15.040	1.00	37.97
ATOM	3987	CB	MET	601	10.230	21.149	-10.646	1.00	69.60
ATOM	3988	CG	MET	601	9.281	20.343	-11.531	1.00	71.50
ATOM	3989	SD	MET	601	7.632	21.063	-11.738	1.00	73.80
ATOM	3990	CE	MET	601	6.646	19.961	-10.716	1.00	73.00
ATOM	3991	C	MET	601	8.842	22.547	-9.089	1.00	66.93
ATOM	3992	O	MET	601	8.861	23.439	-9.940	1.00	67.03
ATOM	3993	N	MET	601	9.123	20.086	-8.698	1.00	68.90
ATOM	3994	CA	MET	601	9.767	21.337	-9.196	1.00	68.18
ATOM	3995	N	LYS	602	8.036	22.570	-8.032	1.00	64.76
ATOM	3996	CA	LYS	602	7.110	23.667	-7.796	1.00	62.08
ATOM	3997	CB	LYS	602	5.693	23.272	-8.237	1.00	63.38
ATOM	3998	CG	LYS	602	5.557	23.006	-9.732	1.00	64.55
ATOM	3999	CD	LYS	602	5.683	24.288	-10.545	1.00	65.81
ATOM	4000	CE	LYS	602	4.492	25.207	-10.311	1.00	65.96
ATOM	4001	NZ	LYS	602	4.629	26.497	-11.038	1.00	66.71
ATOM	4002	C	LYS	602	7.105	24.081	-6.322	1.00	59.15
ATOM	4003	O	LYS	602	7.250	25.263	-6.006	1.00	59.60
ATOM	4004	N	PRO	603	6.959	23.112	-5.396	1.00	55.04
ATOM	4005	CD	PRO	603	7.155	23.394	-3.964	1.00	54.14
ATOM	4006	CA	PRO	603	6.772	21.673	-5.613	1.00	51.11
ATOM	4007	CB	PRO	603	7.269	21.076	-4.303	1.00	52.30
ATOM	4008	CG	PRO	603	6.782	22.075	-3.311	1.00	53.08
ATOM	4009	C	PRO	603	5.317	21.318	-5.889	1.00	46.82
ATOM	4010	O	PRO	603	4.426	22.143	-5.704	1.00	47.26
ATOM	4011	N	THR	604	5.079	20.088	-6.329	1.00	41.84
ATOM	4012	CA	THR	604	3.727	19.639	-6.627	1.00	36.41
ATOM	4013	CB	THR	604	3.742	18.241	-7.268	1.00	36.28
ATOM	4014	OG1	THR	604	4.564	18.265	-8.440	1.00	34.78
ATOM	4015	CG2	THR	604	2.331	17.811	-7.650	1.00	35.28
ATOM	4016	C	THR	604	2.902	19.582	-5.350	1.00	33.25
ATOM	4017	O	THR	604	3.270	18.893	-4.398	1.00	31.12
ATOM	4018	N	THR	605	1.792	20.314	-5.326	1.00	30.68
ATOM	4019	CA	THR	605	0.929	20.327	-4.153	1.00	29.21
ATOM	4020	CB	THR	605	0.921	21.708	-3.465	1.00	29.89
ATOM	4021	OG1	THR	605	0.134	22.625	-4.236	1.00	30.44
ATOM	4022	CG2	THR	605	2.341	22.245	-3.336	1.00	29.99
ATOM	4023	C	THR	605	-0.505	19.970	-4.524	1.00	27.07
ATOM	4024	O	THR	605	-0.823	19.779	-5.700	1.00	25.26
ATOM	4025	N	ILE	606	-1.358	19.885	-3.508	1.00	24.97
ATOM	4026	CA	ILE	606	-2.767	19.551	-3.684	1.00	24.26
ATOM	4027	CB	ILE	606	-3.495	19.497	-2.318	1.00	26.83
ATOM	4028	CG2	ILE	606	-4.942	19.052	-2.510	1.00	24.52
ATOM	4029	CG1	ILE	606	-2.767	18.531	-1.381	1.00	28.76
ATOM	4030	CD1	ILE	606	-3.204	18.634	0.077	1.00	32.70
ATOM	4031	C	ILE	606	-3.459	20.593	-4.558	1.00	22.72
ATOM	4032	O	ILE	606	-4.297	20.259	-5.397	1.00	21.59

ATOM	4033	N	SER	607	-3.095	21.854	-4.359	1.00	21.35
ATOM	4034	CA	SER	607	-3.691	22.947	-5.113	1.00	21.40
ATOM	4035	CB	SER	607	-3.042	24.271	-4.712	1.00	23.61
ATOM	4036	OG	SER	607	-3.247	24.522	-3.332	1.00	30.17
ATOM	4037	C	SER	607	-3.552	22.744	-6.618	1.00	20.50
ATOM	4038	O	SER	607	-4.427	23.140	-7.390	1.00	19.39
ATOM	4039	N	LEU	608	-2.448	22.129	-7.025	1.00	20.28
ATOM	4040	CA	LEU	608	-2.194	21.879	-8.437	1.00	20.79
ATOM	4041	CB	LEU	608	-0.773	21.349	-8.636	1.00	22.00
ATOM	4042	CG	LEU	608	0.040	21.923	-9.802	1.00	25.44
ATOM	4043	CD1	LEU	608	1.261	21.050	-10.024	1.00	26.12
ATOM	4044	CD2	LEU	608	-0.794	21.996	-11.055	1.00	26.06
ATOM	4045	C	LEU	608	-3.196	20.859	-8.979	1.00	18.78
ATOM	4046	O	LEU	608	-3.749	21.022	-10.068	1.00	16.08
ATOM	4047	N	LEU	609	-3.425	19.799	-8.216	1.00	16.93
ATOM	4048	CA	LEU	609	-4.355	18.770	-8.645	1.00	15.90
ATOM	4049	CB	LEU	609	-4.284	17.564	-7.715	1.00	14.64
ATOM	4050	CG	LEU	609	-2.919	16.894	-7.626	1.00	16.05
ATOM	4051	CD1	LEU	609	-3.088	15.620	-6.811	1.00	14.29
ATOM	4052	CD2	LEU	609	-2.367	16.582	-9.012	1.00	14.89
ATOM	4053	C	LEU	609	-5.776	19.302	-8.684	1.00	15.23
ATOM	4054	O	LEU	609	-6.549	18.943	-9.564	1.00	16.80
ATOM	4055	N	GLN	610	-6.120	20.157	-7.727	1.00	16.25
ATOM	4056	CA	GLN	610	-7.454	20.734	-7.688	1.00	18.78
ATOM	4057	CB	GLN	610	-7.610	21.601	-6.431	1.00	22.10
ATOM	4058	CG	GLN	610	-9.015	22.149	-6.168	1.00	22.61
ATOM	4059	CD	GLN	610	-10.087	21.070	-6.066	1.00	25.18
ATOM	4060	OE1	GLN	610	-10.864	20.862	-7.000	1.00	25.07
ATOM	4061	NE2	GLN	610	-10.135	20.380	-4.930	1.00	23.46
ATOM	4062	C	GLN	610	-7.606	21.564	-8.962	1.00	19.36
ATOM	4063	O	GLN	610	-8.674	21.599	-9.567	1.00	20.25
ATOM	4064	N	LYS	611	-6.518	22.203	-9.380	1.00	17.95
ATOM	4065	CA	LYS	611	-6.527	23.011	-10.591	1.00	19.00
ATOM	4066	CB	LYS	611	-5.237	23.829	-10.694	1.00	19.60
ATOM	4067	CG	LYS	611	-5.135	24.652	-11.967	1.00	26.12
ATOM	4068	CD	LYS	611	-3.929	25.572	-11.947	1.00	30.05
ATOM	4069	CE	LYS	611	-4.051	26.611	-10.841	1.00	33.03
ATOM	4070	NZ	LYS	611	-2.950	27.626	-10.883	1.00	36.49
ATOM	4071	C	LYS	611	-6.684	22.119	-11.825	1.00	18.37
ATOM	4072	O	LYS	611	-7.438	22.443	-12.743	1.00	17.92
ATOM	4073	N	TYR	612	-5.969	21.000	-11.853	1.00	17.93
ATOM	4074	CA	TYR	612	-6.069	20.072	-12.974	1.00	17.14
ATOM	4075	CB	TYR	612	-5.137	18.873	-12.757	1.00	18.22
ATOM	4076	CG	TYR	612	-3.674	19.182	-13.000	1.00	20.39
ATOM	4077	CD1	TYR	612	-2.672	18.314	-12.568	1.00	20.70
ATOM	4078	CE1	TYR	612	-1.325	18.591	-12.819	1.00	22.32
ATOM	4079	CD2	TYR	612	-3.292	20.335	-13.686	1.00	20.10
ATOM	4080	CE2	TYR	612	-1.952	20.618	-13.941	1.00	22.45
ATOM	4081	CZ	TYR	612	-0.978	19.745	-13.507	1.00	20.89
ATOM	4082	OH	TYR	612	0.343	20.026	-13.781	1.00	24.80
ATOM	4083	C	TYR	612	-7.501	19.586	-13.165	1.00	16.86
ATOM	4084	O	TYR	612	-7.942	19.383	-14.295	1.00	17.28
ATOM	4085	N	LYS	613	-8.233	19.390	-12.068	1.00	16.32
ATOM	4086	CA	LYS	613	-9.618	18.935	-12.192	1.00	15.88
ATOM	4087	CB	LYS	613	-10.229	18.609	-10.821	1.00	14.30
ATOM	4088	CG	LYS	613	-11.689	18.175	-10.928	1.00	17.16
ATOM	4089	CD	LYS	613	-12.164	17.374	-9.723	1.00	17.49
ATOM	4090	CE	LYS	613	-13.620	16.936	-9.921	1.00	18.61
ATOM	4091	NZ	LYS	613	-14.048	15.860	-8.988	1.00	17.77
ATOM	4092	C	LYS	613	-10.422	20.045	-12.869	1.00	16.11
ATOM	4093	O	LYS	613	-11.313	19.786	-13.676	1.00	16.71
ATOM	4094	N	GLN	614	-10.087	21.285	-12.523	1.00	17.86
ATOM	4095	CA	GLN	614	-10.736	22.457	-13.099	1.00	18.80
ATOM	4096	CB	GLN	614	-10.097	23.740	-12.558	1.00	21.10
ATOM	4097	CG	GLN	614	-10.022	23.863	-11.039	1.00	30.74
ATOM	4098	CD	GLN	614	-9.094	24.991	-10.574	1.00	35.26
ATOM	4099	OE1	GLN	614	-8.799	25.925	-11.331	1.00	37.92
ATOM	4100	NE2	GLN	614	-8.645	24.916	-9.315	1.00	33.37
ATOM	4101	C	GLN	614	-10.534	22.416	-14.613	1.00	17.17
ATOM	4102	O	GLN	614	-11.455	22.671	-15.390	1.00	18.11
ATOM	4103	N	GLU	615	-9.314	22.085	-15.016	1.00	16.94
ATOM	4104	CA	GLU	615	-8.945	22.027	-16.426	1.00	16.23
ATOM	4105	CB	GLU	615	-7.451	22.331	-16.557	1.00	16.41
ATOM	4106	CG	GLU	615	-7.071	23.645	-15.899	1.00	16.28
ATOM	4107	CD	GLU	615	-5.579	23.851	-15.792	1.00	16.90
ATOM	4108	OE1	GLU	615	-4.826	22.881	-16.002	1.00	20.30
ATOM	4109	OE2	GLU	615	-5.150	24.981	-15.478	1.00	17.87

ATOM	4110	C	GLU	615	-9.277	20.707	-17.115	1.00	16.72
ATOM	4111	O	GLU	615	-9.025	20.543	-18.310	1.00	16.29
ATOM	4112	N	LYS	616	-9.869	19.778	-16.371	1.00	17.52
ATOM	4113	CA	LYS	616	-10.210	18.460	-16.915	1.00	20.17
ATOM	4114	CB	LYS	616	-11.254	18.567	-18.027	1.00	23.07
ATOM	4115	CG	LYS	616	-12.604	19.120	-17.606	1.00	29.30
ATOM	4116	CD	LYS	616	-13.410	18.131	-16.789	1.00	32.57
ATOM	4117	CE	LYS	616	-14.817	18.660	-16.536	1.00	33.31
ATOM	4118	NZ	LYS	616	-15.508	18.981	-17.807	1.00	38.09
ATOM	4119	C	LYS	616	-8.950	17.815	-17.475	1.00	21.00
ATOM	4120	O	LYS	616	-8.993	17.058	-18.455	1.00	21.94
ATOM	4121	N	LYS	617	-7.818	18.138	-16.864	1.00	18.27
ATOM	4122	CA	LYS	617	-6.557	17.569	-17.298	1.00	17.56
ATOM	4123	CB	LYS	617	-5.427	18.592	-17.183	1.00	20.70
ATOM	4124	CG	LYS	617	-4.111	18.075	-17.736	1.00	23.47
ATOM	4125	CD	LYS	617	-2.959	18.959	-17.311	1.00	27.46
ATOM	4126	CE	LYS	617	-3.104	20.376	-17.847	1.00	28.51
ATOM	4127	NZ	LYS	617	-2.146	21.290	-17.160	1.00	31.20
ATOM	4128	C	LYS	617	-6.266	16.375	-16.399	1.00	16.64
ATOM	4129	O	LYS	617	-5.821	16.535	-15.263	1.00	14.57
ATOM	4130	N	ARG	618	-6.536	15.180	-16.910	1.00	16.67
ATOM	4131	CA	ARG	618	-6.320	13.957	-16.149	1.00	14.83
ATOM	4132	CB	ARG	618	-6.910	12.773	-16.921	1.00	15.62
ATOM	4133	CG	ARG	618	-8.434	12.769	-16.882	1.00	18.58
ATOM	4134	CD	ARG	618	-9.058	11.769	-17.852	1.00	23.21
ATOM	4135	NE	ARG	618	-8.928	12.221	-19.232	1.00	26.25
ATOM	4136	CZ	ARG	618	-9.601	11.709	-20.258	1.00	27.82
ATOM	4137	NH1	ARG	618	-10.458	10.716	-20.060	1.00	27.55
ATOM	4138	NH2	ARG	618	-9.421	12.201	-21.480	1.00	25.20
ATOM	4139	C	ARG	618	-4.838	13.767	-15.865	1.00	15.48
ATOM	4140	O	ARG	618	-3.999	13.923	-16.748	1.00	16.70
ATOM	4141	N	PHE	619	-4.519	13.432	-14.619	1.00	14.70
ATOM	4142	CA	PHE	619	-3.131	13.280	-14.213	1.00	13.63
ATOM	4143	CB	PHE	619	-2.797	14.341	-13.158	1.00	14.26
ATOM	4144	CG	PHE	619	-3.688	14.296	-11.951	1.00	15.87
ATOM	4145	CD1	PHE	619	-3.411	13.431	-10.894	1.00	14.85
ATOM	4146	CD2	PHE	619	-4.816	15.109	-11.875	1.00	17.83
ATOM	4147	CE1	PHE	619	-4.244	13.374	-9.778	1.00	14.51
ATOM	4148	CE2	PHE	619	-5.657	15.062	-10.764	1.00	17.27
ATOM	4149	CZ	PHE	619	-5.370	14.191	-9.711	1.00	15.64
ATOM	4150	C	PHE	619	-2.815	11.896	-13.671	1.00	15.10
ATOM	4151	O	PHE	619	-3.660	11.258	-13.051	1.00	14.55
ATOM	4152	N	ALA	620	-1.586	11.451	-13.903	1.00	13.79
ATOM	4153	CA	ALA	620	-1.144	10.144	-13.440	1.00	14.57
ATOM	4154	CB	ALA	620	-0.186	9.529	-14.460	1.00	14.31
ATOM	4155	C	ALA	620	-0.482	10.194	-12.067	1.00	14.58
ATOM	4156	O	ALA	620	0.149	11.185	-11.687	1.00	13.79
ATOM	4157	N	THR	621	-0.646	9.106	-11.322	1.00	12.87
ATOM	4158	CA	THR	621	-0.073	8.962	-9.994	1.00	14.62
ATOM	4159	CB	THR	621	-1.145	9.145	-8.912	1.00	18.68
ATOM	4160	OG1	THR	621	-1.660	10.482	-8.982	1.00	22.56
ATOM	4161	CG2	THR	621	-0.567	8.893	-7.550	1.00	25.02
ATOM	4162	C	THR	621	0.457	7.538	-9.925	1.00	13.44
ATOM	4163	O	THR	621	-0.023	6.658	-10.643	1.00	13.17
ATOM	4164	N	ILE	622	1.428	7.296	-9.059	1.00	14.11
ATOM	4165	CA	ILE	622	1.984	5.958	-8.979	1.00	14.52
ATOM	4166	CB	ILE	622	3.165	5.825	-9.985	1.00	16.11
ATOM	4167	CG2	ILE	622	4.372	6.630	-9.495	1.00	19.85
ATOM	4168	CG1	ILE	622	3.500	4.352	-10.204	1.00	19.83
ATOM	4169	CD1	ILE	622	4.468	4.118	-11.347	1.00	22.61
ATOM	4170	C	ILE	622	2.443	5.606	-7.570	1.00	13.66
ATOM	4171	O	ILE	622	2.596	6.481	-6.735	1.00	12.92
ATOM	4172	N	THR	623	2.611	4.317	-7.295	1.00	15.34
ATOM	4173	CA	THR	623	3.080	3.914	-5.979	1.00	16.08
ATOM	4174	CB	THR	623	2.611	2.491	-5.595	1.00	16.42
ATOM	4175	OG1	THR	623	3.187	1.540	-6.498	1.00	19.41
ATOM	4176	CG2	THR	623	1.090	2.390	-5.656	1.00	19.47
ATOM	4177	C	THR	623	4.602	3.910	-6.063	1.00	14.73
ATOM	4178	O	THR	623	5.162	3.799	-7.150	1.00	14.80
ATOM	4179	N	ALA	624	5.260	4.030	-4.913	1.00	14.62
ATOM	4180	CA	ALA	624	6.719	4.024	-4.826	1.00	14.05
ATOM	4181	CB	ALA	624	7.282	5.398	-5.187	1.00	13.19
ATOM	4182	C	ALA	624	7.081	3.680	-3.384	1.00	14.67
ATOM	4183	O	ALA	624	6.417	4.135	-2.452	1.00	14.07
ATOM	4184	N	TYR	625	8.126	2.885	-3.186	1.00	14.04
ATOM	4185	CA	TYR	625	8.504	2.522	-1.830	1.00	13.33
ATOM	4186	CB	TYR	625	7.992	1.125	-1.478	1.00	13.65

ATOM	4187	CG	TYR	625	6.658	0.790	-2.089	1.00	11.16
ATOM	4188	CD1	TYR	625	6.587	0.065	-3.277	1.00	13.08
ATOM	4189	CE1	TYR	625	5.367	-0.253	-3.852	1.00	12.70
ATOM	4190	CD2	TYR	625	5.467	1.199	-1.488	1.00	11.45
ATOM	4191	CE2	TYR	625	4.234	0.886	-2.057	1.00	11.45
ATOM	4192	CZ	TYR	625	4.194	0.155	-3.241	1.00	11.70
ATOM	4193	OH	TYR	625	2.993	-0.200	-3.795	1.00	13.12
ATOM	4194	C	TYR	625	9.999	2.555	-1.624	1.00	14.79
ATOM	4195	O	TYR	625	10.500	2.009	-0.640	1.00	12.38
ATOM	4196	N	ASP	626	10.721	3.177	-2.549	1.00	14.45
ATOM	4197	CA	ASP	626	12.166	3.263	-2.410	1.00	16.17
ATOM	4198	CB	ASP	626	12.837	1.949	-2.862	1.00	18.23
ATOM	4199	CG	ASP	626	12.721	1.703	-4.362	1.00	19.53
ATOM	4200	OD1	ASP	626	13.387	2.419	-5.136	1.00	19.59
ATOM	4201	OD2	ASP	626	11.964	0.792	-4.764	1.00	21.03
ATOM	4202	C	ASP	626	12.746	4.454	-3.159	1.00	16.01
ATOM	4203	O	ASP	626	12.091	5.068	-4.009	1.00	15.86
ATOM	4204	N	TYR	627	13.989	4.771	-2.826	1.00	15.06
ATOM	4205	CA	TYR	627	14.695	5.896	-3.419	1.00	15.15
ATOM	4206	CB	TYR	627	16.058	6.039	-2.745	1.00	16.61
ATOM	4207	CG	TYR	627	16.991	7.003	-3.440	1.00	17.55
ATOM	4208	CD1	TYR	627	17.025	8.351	-3.089	1.00	17.88
ATOM	4209	CE1	TYR	627	17.901	9.237	-3.714	1.00	18.86
ATOM	4210	CD2	TYR	627	17.854	6.561	-4.441	1.00	18.63
ATOM	4211	CE2	TYR	627	18.728	7.435	-5.073	1.00	20.28
ATOM	4212	CZ	TYR	627	18.746	8.763	-4.703	1.00	21.00
ATOM	4213	OH	TYR	627	19.624	9.615	-5.330	1.00	23.89
ATOM	4214	C	TYR	627	14.892	5.816	-4.929	1.00	15.66
ATOM	4215	O	TYR	627	14.681	6.797	-5.635	1.00	15.39
ATOM	4216	N	SER	628	15.300	4.653	-5.422	1.00	15.60
ATOM	4217	CA	SER	628	15.568	4.504	-6.842	1.00	16.14
ATOM	4218	CB	SER	628	16.196	3.139	-7.111	1.00	16.61
ATOM	4219	OG	SER	628	17.466	3.068	-6.473	1.00	18.25
ATOM	4220	C	SER	628	14.367	4.733	-7.746	1.00	16.64
ATOM	4221	O	SER	628	14.448	5.505	-8.702	1.00	14.62
ATOM	4222	N	PHE	629	13.249	4.081	-7.462	1.00	16.10
ATOM	4223	CA	PHE	629	12.090	4.303	-8.307	1.00	15.35
ATOM	4224	CB	PHE	629	11.032	3.225	-8.069	1.00	15.85
ATOM	4225	CG	PHE	629	11.350	1.934	-8.769	1.00	16.27
ATOM	4226	CD1	PHE	629	12.022	0.910	-8.108	1.00	15.67
ATOM	4227	CD2	PHE	629	11.039	1.774	-10.118	1.00	14.97
ATOM	4228	CE1	PHE	629	12.381	-0.261	-8.781	1.00	16.45
ATOM	4229	CE2	PHE	629	11.391	0.616	-10.803	1.00	15.51
ATOM	4230	CZ	PHE	629	12.066	-0.408	-10.137	1.00	15.52
ATOM	4231	C	PHE	629	11.526	5.712	-8.131	1.00	15.42
ATOM	4232	O	PHE	629	11.149	6.362	-9.110	1.00	14.31
ATOM	4233	N	ALA	630	11.509	6.210	-6.900	1.00	13.96
ATOM	4234	CA	ALA	630	10.998	7.554	-6.654	1.00	13.58
ATOM	4235	CB	ALA	630	11.058	7.872	-5.164	1.00	15.22
ATOM	4236	C	ALA	630	11.800	8.585	-7.447	1.00	14.75
ATOM	4237	O	ALA	630	11.240	9.526	-8.024	1.00	14.71
ATOM	4238	N	LYS	631	13.115	8.408	-7.467	1.00	15.76
ATOM	4239	CA	LYS	631	14.011	9.312	-8.193	1.00	17.34
ATOM	4240	CB	LYS	631	15.465	8.898	-7.923	1.00	17.65
ATOM	4241	CG	LYS	631	16.529	9.653	-8.706	1.00	23.27
ATOM	4242	CD	LYS	631	16.611	11.105	-8.294	1.00	24.41
ATOM	4243	CE	LYS	631	17.957	11.707	-8.699	1.00	28.34
ATOM	4244	NZ	LYS	631	18.224	11.574	-10.164	1.00	29.72
ATOM	4245	C	LYS	631	13.703	9.244	-9.689	1.00	16.69
ATOM	4246	O	LYS	631	13.628	10.269	-10.375	1.00	17.77
ATOM	4247	N	LEU	632	13.527	8.028	-10.193	1.00	15.74
ATOM	4248	CA	LEU	632	13.224	7.828	-11.606	1.00	14.84
ATOM	4249	CB	LEU	632	13.153	6.334	-11.916	1.00	15.29
ATOM	4250	CG	LEU	632	13.100	5.918	-13.390	1.00	14.76
ATOM	4251	CD1	LEU	632	13.590	4.496	-13.492	1.00	13.45
ATOM	4252	CD2	LEU	632	11.689	6.064	-13.954	1.00	14.18
ATOM	4253	C	LEU	632	11.909	8.503	-11.997	1.00	16.72
ATOM	4254	O	LEU	632	11.834	9.159	-13.035	1.00	15.36
ATOM	4255	N	PHE	633	10.872	8.335	-11.177	1.00	15.97
ATOM	4256	CA	PHE	633	9.581	8.942	-11.477	1.00	17.44
ATOM	4257	CB	PHE	633	8.497	8.463	-10.493	1.00	16.12
ATOM	4258	CG	PHE	633	8.333	6.958	-10.425	1.00	17.21
ATOM	4259	CD1	PHE	633	8.562	6.156	-11.542	1.00	18.33
ATOM	4260	CD2	PHE	633	7.921	6.350	-9.240	1.00	18.31
ATOM	4261	CE1	PHE	633	8.386	4.763	-11.483	1.00	17.53
ATOM	4262	CE2	PHE	633	7.739	4.966	-9.167	1.00	14.83
ATOM	4263	CZ	PHE	633	7.974	4.171	-10.291	1.00	18.33



ATOM	4264	C	PHE	633	9.683	10.464	-11.409	1.00	19.16
ATOM	4265	O	PHE	633	9.128	11.173	-12.251	1.00	20.23
ATOM	4266	N	ALA	634	10.390	10.964	-10.402	1.00	18.95
ATOM	4267	CA	ALA	634	10.561	12.402	-10.235	1.00	20.80
ATOM	4268	CB	ALA	634	11.315	12.697	-8.941	1.00	22.92
ATOM	4269	C	ALA	634	11.314	12.996	-11.423	1.00	21.47
ATOM	4270	O	ALA	634	10.970	14.073	-11.903	1.00	21.11
ATOM	4271	N	ASP	635	12.339	12.296	-11.898	1.00	21.14
ATOM	4272	CA	ASP	635	13.113	12.792	-13.030	1.00	23.15
ATOM	4273	CB	ASP	635	14.366	11.943	-13.249	1.00	24.84
ATOM	4274	CG	ASP	635	15.388	12.102	-12.141	1.00	24.40
ATOM	4275	OD1	ASP	635	15.242	13.015	-11.300	1.00	27.97
ATOM	4276	OD2	ASP	635	16.349	11.311	-12.127	1.00	26.01
ATOM	4277	C	ASP	635	12.319	12.844	-14.338	1.00	23.85
ATOM	4278	O	ASP	635	12.662	13.606	-15.247	1.00	23.95
ATOM	4279	N	GLU	636	11.269	12.034	-14.434	1.00	22.21
ATOM	4280	CA	GLU	636	10.432	11.986	-15.629	1.00	22.88
ATOM	4281	CB	GLU	636	9.971	10.555	-15.899	1.00	22.80
ATOM	4282	CG	GLU	636	11.087	9.593	-16.233	1.00	24.66
ATOM	4283	CD	GLU	636	11.863	10.024	-17.459	1.00	25.48
ATOM	4284	OE1	GLU	636	11.236	10.200	-18.523	1.00	28.84
ATOM	4285	OE2	GLU	636	13.092	10.186	-17.359	1.00	26.19
ATOM	4286	C	GLU	636	9.203	12.879	-15.543	1.00	21.66
ATOM	4287	O	GLU	636	8.483	13.035	-16.528	1.00	22.31
ATOM	4288	N	GLY	637	8.939	13.435	-14.365	1.00	20.53
ATOM	4289	CA	GLY	637	7.789	14.308	-14.223	1.00	20.79
ATOM	4290	C	GLY	637	6.590	13.755	-13.472	1.00	21.60
ATOM	4291	O	GLY	637	5.582	14.452	-13.348	1.00	22.27
ATOM	4292	N	LEU	638	6.680	12.511	-13.000	1.00	21.20
ATOM	4293	CA	LEU	638	5.599	11.891	-12.228	1.00	22.21
ATOM	4294	CB	LEU	638	5.683	10.361	-12.301	1.00	23.81
ATOM	4295	CG	LEU	638	4.426	9.629	-12.774	1.00	26.98
ATOM	4296	CD1	LEU	638	4.678	8.133	-12.758	1.00	25.19
ATOM	4297	CD2	LEU	638	3.241	9.988	-11.903	1.00	27.34
ATOM	4298	C	LEU	638	5.876	12.355	-10.807	1.00	20.11
ATOM	4299	O	LEU	638	6.683	11.752	-10.094	1.00	22.26
ATOM	4300	N	ASN	639	5.203	13.427	-10.409	1.00	20.38
ATOM	4301	CA	ASN	639	5.415	14.035	-9.105	1.00	18.91
ATOM	4302	CB	ASN	639	5.557	15.555	-9.264	1.00	24.25
ATOM	4303	CG	ASN	639	6.571	15.944	-10.327	1.00	28.84
ATOM	4304	OD1	ASN	639	7.684	15.416	-10.361	1.00	31.74
ATOM	4305	ND2	ASN	639	6.195	16.881	-11.194	1.00	31.59
ATOM	4306	C	ASN	639	4.348	13.747	-8.054	1.00	17.68
ATOM	4307	O	ASN	639	4.240	14.470	-7.061	1.00	16.28
ATOM	4308	N	VAL	640	3.547	12.711	-8.265	1.00	16.43
ATOM	4309	CA	VAL	640	2.518	12.366	-7.289	1.00	15.98
ATOM	4310	CB	VAL	640	1.101	12.590	-7.840	1.00	16.39
ATOM	4311	CG1	VAL	640	0.083	12.203	-6.787	1.00	18.52
ATOM	4312	CG2	VAL	640	0.917	14.054	-8.224	1.00	18.53
ATOM	4313	C	VAL	640	2.712	10.895	-6.973	1.00	15.29
ATOM	4314	O	VAL	640	2.445	10.036	-7.811	1.00	11.74
ATOM	4315	N	MET	641	3.190	10.618	-5.764	1.00	13.95
ATOM	4316	CA	MET	641	3.477	9.252	-5.362	1.00	14.10
ATOM	4317	CB	MET	641	4.989	9.052	-5.237	1.00	14.03
ATOM	4318	CG	MET	641	5.725	9.242	-6.546	1.00	18.23
ATOM	4319	SD	MET	641	7.481	9.167	-6.340	1.00	18.97
ATOM	4320	CE	MET	641	8.019	10.537	-7.397	1.00	20.65
ATOM	4321	C	MET	641	2.815	8.827	-4.076	1.00	12.89
ATOM	4322	O	MET	641	2.704	9.599	-3.127	1.00	16.15
ATOM	4323	N	LEU	642	2.405	7.569	-4.041	1.00	13.58
ATOM	4324	CA	LEU	642	1.743	7.045	-2.865	1.00	15.28
ATOM	4325	CB	LEU	642	0.330	6.602	-3.257	1.00	19.13
ATOM	4326	CG	LEU	642	-0.652	5.954	-2.276	1.00	23.45
ATOM	4327	CD1	LEU	642	-0.395	4.474	-2.248	1.00	25.41
ATOM	4328	CD2	LEU	642	-0.555	6.576	-0.881	1.00	22.82
ATOM	4329	C	LEU	642	2.533	5.908	-2.230	1.00	15.23
ATOM	4330	O	LEU	642	2.920	4.947	-2.898	1.00	15.25
ATOM	4331	N	VAL	643	2.782	6.053	-0.933	1.00	16.09
ATOM	4332	CA	VAL	643	3.478	5.037	-0.155	1.00	16.71
ATOM	4333	CB	VAL	643	4.389	5.668	0.917	1.00	15.65
ATOM	4334	CG1	VAL	643	5.181	4.576	1.632	1.00	17.25
ATOM	4335	CG2	VAL	643	5.351	6.663	0.261	1.00	20.05
ATOM	4336	C	VAL	643	2.327	4.297	0.508	1.00	15.14
ATOM	4337	O	VAL	643	1.931	4.624	1.624	1.00	15.03
ATOM	4338	N	GLY	644	1.784	3.313	-0.206	1.00	18.13
ATOM	4339	CA	GLY	644	0.646	2.565	0.288	1.00	16.80
ATOM	4340	C	GLY	644	0.948	1.249	0.963	1.00	16.33

ATOM	4341	O	GLY	644	2.038	0.698	0.802	1.00	15.86
ATOM	4342	N	ASP	645	-0.020	0.735	1.717	1.00	15.60
ATOM	4343	CA	ASP	645	0.200	-0.529	2.411	1.00	16.74
ATOM	4344	CB	ASP	645	-0.837	-0.755	3.521	1.00	15.16
ATOM	4345	CG	ASP	645	-2.268	-0.790	3.017	1.00	16.47
ATOM	4346	OD1	ASP	645	-2.499	-0.772	1.794	1.00	12.97
ATOM	4347	OD2	ASP	645	-3.178	-0.843	3.875	1.00	16.97
ATOM	4348	C	ASP	645	0.258	-1.703	1.446	1.00	15.61
ATOM	4349	O	ASP	645	0.406	-2.856	1.860	1.00	18.52
ATOM	4350	N	SER	646	0.169	-1.399	0.151	1.00	14.45
ATOM	4351	CA	SER	646	0.283	-2.425	-0.879	1.00	12.93
ATOM	4352	CB	SER	646	0.062	-1.821	-2.266	1.00	14.70
ATOM	4353	OG	SER	646	0.943	-0.726	-2.478	1.00	16.74
ATOM	4354	C	SER	646	1.695	-2.994	-0.801	1.00	13.99
ATOM	4355	O	SER	646	1.969	-4.085	-1.308	1.00	15.91
ATOM	4356	N	LEU	647	2.596	-2.248	-0.170	1.00	11.90
ATOM	4357	CA	LEU	647	3.977	-2.702	-0.031	1.00	12.24
ATOM	4358	CB	LEU	647	4.839	-1.599	0.601	1.00	12.62
ATOM	4359	CG	LEU	647	4.542	-1.162	2.038	1.00	13.54
ATOM	4360	CD1	LEU	647	5.201	-2.120	3.026	1.00	15.69
ATOM	4361	CD2	LEU	647	5.062	0.254	2.247	1.00	14.93
ATOM	4362	C	LEU	647	4.015	-3.975	0.818	1.00	12.53
ATOM	4363	O	LEU	647	4.983	-4.728	0.765	1.00	13.66
ATOM	4364	N	GLY	648	2.954	-4.216	1.586	1.00	12.76
ATOM	4365	CA	GLY	648	2.910	-5.410	2.417	1.00	12.76
ATOM	4366	C	GLY	648	2.941	-6.654	1.554	1.00	13.52
ATOM	4367	O	GLY	648	3.395	-7.720	1.973	1.00	12.64
ATOM	4368	N	MET	649	2.456	-6.510	0.328	1.00	13.40
ATOM	4369	CA	MET	649	2.434	-7.615	-0.611	1.00	13.82
ATOM	4370	CB	MET	649	1.068	-7.672	-1.307	1.00	15.15
ATOM	4371	CG	MET	649	-0.080	-7.870	-0.326	1.00	19.61
ATOM	4372	SD	MET	649	-1.749	-7.781	-1.021	1.00	23.07
ATOM	4373	CE	MET	649	-1.676	-9.060	-2.275	1.00	19.40
ATOM	4374	C	MET	649	3.563	-7.497	-1.631	1.00	14.32
ATOM	4375	O	MET	649	4.352	-8.418	-1.802	1.00	13.75
ATOM	4376	N	THR	650	3.678	-6.353	-2.290	1.00	12.15
ATOM	4377	CA	THR	650	4.717	-6.216	-3.303	1.00	13.72
ATOM	4378	CB	THR	650	4.416	-5.015	-4.221	1.00	15.77
ATOM	4379	OG1	THR	650	4.506	-3.803	-3.475	1.00	21.01
ATOM	4380	CG2	THR	650	3.011	-5.143	-4.785	1.00	15.50
ATOM	4381	C	THR	650	6.144	-6.135	-2.776	1.00	12.32
ATOM	4382	O	THR	650	7.089	-6.565	-3.445	1.00	11.07
ATOM	4383	N	VAL	651	6.310	-5.595	-1.576	1.00	11.93
ATOM	4384	CA	VAL	651	7.645	-5.477	-0.995	1.00	12.05
ATOM	4385	CB	VAL	651	7.845	-4.079	-0.358	1.00	12.18
ATOM	4386	CG1	VAL	651	9.211	-3.993	0.316	1.00	13.43
ATOM	4387	CG2	VAL	651	7.711	-3.005	-1.423	1.00	13.62
ATOM	4388	C	VAL	651	7.895	-6.557	0.057	1.00	11.83
ATOM	4389	O	VAL	651	8.858	-7.316	-0.035	1.00	12.12
ATOM	4390	N	GLN	652	7.018	-6.640	1.049	1.00	12.39
ATOM	4391	CA	GLN	652	7.204	-7.615	2.123	1.00	13.70
ATOM	4392	CB	GLN	652	6.420	-7.177	3.350	1.00	13.40
ATOM	4393	CG	GLN	652	6.796	-5.783	3.818	1.00	13.66
ATOM	4394	CD	GLN	652	6.004	-5.362	5.028	1.00	13.82
ATOM	4395	OE1	GLN	652	4.978	-5.962	5.340	1.00	14.37
ATOM	4396	NE2	GLN	652	6.464	-4.319	5.713	1.00	9.59
ATOM	4397	C	GLN	652	6.845	-9.053	1.770	1.00	13.88
ATOM	4398	O	GLN	652	7.356	-9.982	2.388	1.00	14.21
ATOM	4399	N	GLY	653	5.957	-9.239	0.799	1.00	12.48
ATOM	4400	CA	GLY	653	5.595	-10.590	0.408	1.00	14.75
ATOM	4401	C	GLY	653	4.474	-11.249	1.193	1.00	14.96
ATOM	4402	O	GLY	653	4.323	-12.468	1.144	1.00	14.96
ATOM	4403	N	HIS	654	3.693	-10.461	1.924	1.00	14.70
ATOM	4404	CA	HIS	654	2.572	-11.008	2.678	1.00	18.41
ATOM	4405	CB	HIS	654	2.150	-10.052	3.792	1.00	15.90
ATOM	4406	CG	HIS	654	3.191	-9.857	4.844	1.00	17.16
ATOM	4407	CD2	HIS	654	3.830	-8.740	5.265	1.00	12.42
ATOM	4408	ND1	HIS	654	3.677	-10.892	5.614	1.00	15.54
ATOM	4409	CE1	HIS	654	4.571	-10.421	6.463	1.00	17.70
ATOM	4410	NE2	HIS	654	4.683	-9.118	6.272	1.00	15.36
ATOM	4411	C	HIS	654	1.387	-11.248	1.745	1.00	18.82
ATOM	4412	O	HIS	654	1.349	-10.723	0.631	1.00	20.21
ATOM	4413	N	ASP	655	0.420	-12.034	2.216	1.00	19.49
ATOM	4414	CA	ASP	655	-0.769	-12.374	1.436	1.00	20.72
ATOM	4415	CB	ASP	655	-1.406	-13.663	1.978	1.00	25.65
ATOM	4416	CG	ASP	655	-2.228	-13.426	3.234	1.00	28.75
ATOM	4417	OD1	ASP	655	-3.324	-12.830	3.133	1.00	36.14

ATOM	4418	OD2	ASP	655	-1.789	-13.825	4.330	1.00	34.78
ATOM	4419	C	ASP	655	-1.815	-11.263	1.458	1.00	19.20
ATOM	4420	O	ASP	655	-2.805	-11.320	0.729	1.00	20.52
ATOM	4421	N	SER	656	-1.610	-10.267	2.310	1.00	16.01
ATOM	4422	CA	SER	656	-2.545	-9.149	2.407	1.00	14.62
ATOM	4423	CB	SER	656	-3.663	-9.467	3.402	1.00	14.60
ATOM	4424	OG	SER	656	-3.203	-9.327	4.731	1.00	13.62
ATOM	4425	C	SER	656	-1.771	-7.940	2.897	1.00	11.97
ATOM	4426	O	SER	656	-0.579	-8.031	3.185	1.00	11.43
ATOM	4427	N	THR	657	-2.447	-6.801	2.993	1.00	13.16
ATOM	4428	CA	THR	657	-1.801	-5.578	3.461	1.00	12.70
ATOM	4429	CB	THR	657	-2.433	-4.325	2.799	1.00	14.37
ATOM	4430	OG1	THR	657	-3.782	-4.183	3.240	1.00	14.29
ATOM	4431	CG2	THR	657	-2.421	-4.441	1.279	1.00	16.57
ATOM	4432	C	THR	657	-1.852	-5.394	4.980	1.00	12.71
ATOM	4433	O	THR	657	-1.148	-4.550	5.519	1.00	13.29
ATOM	4434	N	LEU	658	-2.675	-6.177	5.675	1.00	14.03
ATOM	4435	CA	LEU	658	-2.823	-6.012	7.135	1.00	13.77
ATOM	4436	CB	LEU	658	-3.780	-7.076	7.692	1.00	15.46
ATOM	4437	CG	LEU	658	-5.279	-6.806	7.474	1.00	17.50
ATOM	4438	CD1	LEU	658	-5.634	-7.040	6.012	1.00	21.01
ATOM	4439	CD2	LEU	658	-6.099	-7.729	8.372	1.00	18.31
ATOM	4440	C	LEU	658	-1.561	-5.951	8.003	1.00	12.69
ATOM	4441	O	LEU	658	-1.485	-5.150	8.927	1.00	12.58
ATOM	4442	N	PRO	659	-0.558	-6.799	7.722	1.00	14.97
ATOM	4443	CD	PRO	659	-0.581	-7.923	6.772	1.00	12.48
ATOM	4444	CA	PRO	659	0.685	-6.810	8.501	1.00	12.86
ATOM	4445	CB	PRO	659	1.425	-8.038	7.957	1.00	14.97
ATOM	4446	CG	PRO	659	0.870	-8.175	6.570	1.00	21.34
ATOM	4447	C	PRO	659	1.540	-5.546	8.448	1.00	13.36
ATOM	4448	O	PRO	659	2.434	-5.365	9.273	1.00	14.03
ATOM	4449	N	VAL	660	1.271	-4.668	7.487	1.00	13.75
ATOM	4450	CA	VAL	660	2.031	-3.427	7.358	1.00	12.32
ATOM	4451	CB	VAL	660	1.619	-2.672	6.069	1.00	12.31
ATOM	4452	CG1	VAL	660	2.316	-1.318	5.990	1.00	13.70
ATOM	4453	CG2	VAL	660	1.962	-3.515	4.868	1.00	10.14
ATOM	4454	C	VAL	660	1.794	-2.536	8.563	1.00	13.42
ATOM	4455	O	VAL	660	0.649	-2.261	8.936	1.00	14.34
ATOM	4456	N	THR	661	2.878	-2.077	9.176	1.00	11.86
ATOM	4457	CA	THR	661	2.772	-1.221	10.357	1.00	15.36
ATOM	4458	CB	THR	661	3.795	-1.640	11.439	1.00	17.87
ATOM	4459	OG1	THR	661	3.640	-3.039	11.736	1.00	21.53
ATOM	4460	CG2	THR	661	3.569	-0.835	12.720	1.00	22.77
ATOM	4461	C	THR	661	3.051	0.233	9.998	1.00	14.14
ATOM	4462	O	THR	661	3.553	0.517	8.916	1.00	11.93
ATOM	4463	N	VAL	662	2.722	1.141	10.912	1.00	13.31
ATOM	4464	CA	VAL	662	2.969	2.560	10.712	1.00	15.63
ATOM	4465	CB	VAL	662	2.465	3.395	11.912	1.00	15.72
ATOM	4466	CG1	VAL	662	3.002	4.809	11.832	1.00	18.60
ATOM	4467	CG2	VAL	662	0.938	3.412	11.921	1.00	15.56
ATOM	4468	C	VAL	662	4.471	2.758	10.556	1.00	15.26
ATOM	4469	O	VAL	662	4.913	3.566	9.740	1.00	15.83
ATOM	4470	N	ALA	663	5.255	2.004	11.323	1.00	14.05
ATOM	4471	CA	ALA	663	6.707	2.100	11.236	1.00	14.62
ATOM	4472	CB	ALA	663	7.364	1.189	12.278	1.00	15.71
ATOM	4473	C	ALA	663	7.178	1.733	9.830	1.00	14.13
ATOM	4474	O	ALA	663	8.092	2.370	9.302	1.00	13.75
ATOM	4475	N	ASP	664	6.556	0.729	9.210	1.00	14.22
ATOM	4476	CA	ASP	664	6.966	0.354	7.849	1.00	13.17
ATOM	4477	CB	ASP	664	6.232	-0.886	7.327	1.00	13.69
ATOM	4478	CG	ASP	664	6.434	-2.115	8.200	1.00	11.91
ATOM	4479	OD1	ASP	664	7.525	-2.275	8.780	1.00	10.98
ATOM	4480	OD2	ASP	664	5.494	-2.925	8.257	1.00	14.69
ATOM	4481	C	ASP	664	6.650	1.494	6.895	1.00	12.45
ATOM	4482	O	ASP	664	7.472	1.838	6.047	1.00	10.45
ATOM	4483	N	ILE	665	5.454	2.067	7.015	1.00	11.31
ATOM	4484	CA	ILE	665	5.088	3.165	6.126	1.00	11.92
ATOM	4485	CB	ILE	665	3.680	3.717	6.429	1.00	13.42
ATOM	4486	CG2	ILE	665	3.406	4.942	5.556	1.00	14.44
ATOM	4487	CG1	ILE	665	2.621	2.645	6.162	1.00	11.06
ATOM	4488	CD1	ILE	665	2.482	2.252	4.704	1.00	14.31
ATOM	4489	C	ILE	665	6.097	4.299	6.243	1.00	12.95
ATOM	4490	O	ILE	665	6.547	4.845	5.227	1.00	12.47
ATOM	4491	N	ALA	666	6.453	4.643	7.481	1.00	13.58
ATOM	4492	CA	ALA	666	7.406	5.725	7.764	1.00	13.36
ATOM	4493	CB	ALA	666	7.528	5.929	9.275	1.00	13.24
ATOM	4494	C	ALA	666	8.788	5.468	7.167	1.00	13.44

ATOM	4495	O	ALA	666	9.435	6.386	6.656	1.00	11.50
ATOM	4496	N	TYR	667	9.232	4.215	7.242	1.00	12.26
ATOM	4497	CA	TYR	667	10.528	3.806	6.703	1.00	12.09
ATOM	4498	CB	TYR	667	10.760	2.315	6.987	1.00	12.31
ATOM	4499	CG	TYR	667	12.002	1.719	6.345	1.00	11.83
ATOM	4500	CD1	TYR	667	13.277	1.995	6.845	1.00	13.98
ATOM	4501	CE1	TYR	667	14.418	1.421	6.275	1.00	14.36
ATOM	4502	CD2	TYR	667	11.897	0.855	5.252	1.00	15.01
ATOM	4503	CE2	TYR	667	13.027	0.280	4.673	1.00	13.37
ATOM	4504	CZ	TYR	667	14.286	0.568	5.189	1.00	15.02
ATOM	4505	OH	TYR	667	15.404	0.011	4.612	1.00	14.89
ATOM	4506	C	TYR	667	10.556	4.050	5.194	1.00	11.94
ATOM	4507	O	TYR	667	11.453	4.712	4.672	1.00	9.26
ATOM	4508	N	HIS	668	9.565	3.501	4.499	1.00	12.01
ATOM	4509	CA	HIS	668	9.473	3.670	3.057	1.00	13.41
ATOM	4510	CB	HIS	668	8.423	2.713	2.486	1.00	12.37
ATOM	4511	CG	HIS	668	8.849	1.278	2.536	1.00	11.83
ATOM	4512	CD2	HIS	668	8.557	0.293	3.419	1.00	11.45
ATOM	4513	ND1	HIS	668	9.774	0.746	1.663	1.00	13.13
ATOM	4514	CE1	HIS	668	10.038	-0.503	2.008	1.00	11.30
ATOM	4515	NE2	HIS	668	9.312	-0.801	3.071	1.00	11.79
ATOM	4516	C	HIS	668	9.159	5.117	2.682	1.00	14.60
ATOM	4517	O	HIS	668	9.641	5.618	1.662	1.00	16.39
ATOM	4518	N	THR	669	8.369	5.803	3.501	1.00	15.65
ATOM	4519	CA	THR	669	8.042	7.197	3.202	1.00	16.31
ATOM	4520	CB	THR	669	7.070	7.797	4.250	1.00	15.04
ATOM	4521	OG1	THR	669	5.787	7.170	4.110	1.00	15.98
ATOM	4522	CG2	THR	669	6.914	9.314	4.036	1.00	15.38
ATOM	4523	C	THR	669	9.313	8.046	3.133	1.00	15.41
ATOM	4524	O	THR	669	9.495	8.841	2.202	1.00	15.01
ATOM	4525	N	ALA	670	10.205	7.858	4.104	1.00	15.82
ATOM	4526	CA	ALA	670	11.458	8.615	4.151	1.00	14.91
ATOM	4527	CB	ALA	670	12.230	8.272	5.426	1.00	16.01
ATOM	4528	C	ALA	670	12.333	8.349	2.934	1.00	16.09
ATOM	4529	O	ALA	670	13.005	9.255	2.416	1.00	14.84
ATOM	4530	N	ALA	671	12.337	7.098	2.483	1.00	15.41
ATOM	4531	CA	ALA	671	13.141	6.713	1.327	1.00	15.41
ATOM	4532	CB	ALA	671	13.162	5.184	1.190	1.00	14.87
ATOM	4533	C	ALA	671	12.606	7.359	0.049	1.00	16.10
ATOM	4534	O	ALA	671	13.377	7.832	-0.794	1.00	14.32
ATOM	4535	N	VAL	672	11.285	7.382	-0.096	1.00	14.00
ATOM	4536	CA	VAL	672	10.677	8.000	-1.269	1.00	14.46
ATOM	4537	CB	VAL	672	9.148	7.738	-1.313	1.00	15.01
ATOM	4538	CG1	VAL	672	8.482	8.651	-2.351	1.00	15.50
ATOM	4539	CG2	VAL	672	8.891	6.278	-1.686	1.00	16.48
ATOM	4540	C	VAL	672	10.933	9.508	-1.270	1.00	14.16
ATOM	4541	O	VAL	672	11.181	10.108	-2.322	1.00	15.05
ATOM	4542	N	ARG	673	10.883	10.125	-0.095	1.00	13.51
ATOM	4543	CA	ARG	673	11.109	11.564	-0.010	1.00	15.06
ATOM	4544	CB	ARG	673	10.777	12.086	1.390	1.00	15.22
ATOM	4545	CG	ARG	673	11.038	13.580	1.570	1.00	16.26
ATOM	4546	CD	ARG	673	10.302	14.412	0.532	1.00	15.12
ATOM	4547	NE	ARG	673	8.877	14.529	0.829	1.00	16.62
ATOM	4548	CZ	ARG	673	7.983	15.058	0.001	1.00	17.11
ATOM	4549	NH1	ARG	673	8.361	15.518	-1.187	1.00	16.70
ATOM	4550	NH2	ARG	673	6.712	15.137	0.361	1.00	15.79
ATOM	4551	C	ARG	673	12.535	11.937	-0.384	1.00	16.05
ATOM	4552	O	ARG	673	12.764	12.998	-0.963	1.00	16.70
ATOM	4553	N	ARG	674	13.490	11.072	-0.050	1.00	15.93
ATOM	4554	CA	ARG	674	14.883	11.332	-0.394	1.00	17.55
ATOM	4555	CB	ARG	674	15.814	10.311	0.279	1.00	17.79
ATOM	4556	CG	ARG	674	15.769	10.334	1.806	1.00	17.42
ATOM	4557	CD	ARG	674	16.944	9.589	2.437	1.00	19.60
ATOM	4558	NE	ARG	674	16.811	9.507	3.894	1.00	22.66
ATOM	4559	CZ	ARG	674	16.242	8.494	4.544	1.00	21.67
ATOM	4560	NH1	ARG	674	15.755	7.458	3.874	1.00	19.18
ATOM	4561	NH2	ARG	674	16.149	8.519	5.866	1.00	22.65
ATOM	4562	C	ARG	674	15.045	11.264	-1.917	1.00	18.81
ATOM	4563	O	ARG	674	15.865	11.978	-2.489	1.00	17.29
ATOM	4564	N	GLY	675	14.250	10.418	-2.568	1.00	18.30
ATOM	4565	CA	GLY	675	14.338	10.292	-4.013	1.00	18.96
ATOM	4566	C	GLY	675	13.602	11.384	-4.770	1.00	19.21
ATOM	4567	O	GLY	675	13.982	11.737	-5.890	1.00	17.51
ATOM	4568	N	ALA	676	12.548	11.916	-4.160	1.00	19.23
ATOM	4569	CA	ALA	676	11.737	12.969	-4.771	1.00	21.38
ATOM	4570	CB	ALA	676	10.515	12.347	-5.445	1.00	22.27
ATOM	4571	C	ALA	676	11.291	14.003	-3.731	1.00	21.87

ATOM	4572	O	ALA	676	10.160	13.970	-3.260	1.00	21.80
ATOM	4573	N	PRO	677	12.174	14.951	-3.376	1.00	23.81
ATOM	4574	CD	PRO	677	13.544	15.130	-3.888	1.00	24.84
ATOM	4575	CA	PRO	677	11.854	15.984	-2.384	1.00	24.40
ATOM	4576	CB	PRO	677	13.204	16.654	-2.140	1.00	24.98
ATOM	4577	CG	PRO	677	13.859	16.554	-3.459	1.00	25.58
ATOM	4578	C	PRO	677	10.774	16.989	-2.762	1.00	23.70
ATOM	4579	O	PRO	677	10.197	17.640	-1.891	1.00	25.65
ATOM	4580	N	ASN	678	10.496	17.114	-4.054	1.00	24.73
ATOM	4581	CA	ASN	678	9.483	18.057	-4.497	1.00	24.76
ATOM	4582	CB	ASN	678	9.994	18.852	-5.706	1.00	27.05
ATOM	4583	CG	ASN	678	11.256	19.634	-5.395	1.00	30.19
ATOM	4584	OD1	ASN	678	11.303	20.400	-4.430	1.00	31.87
ATOM	4585	ND2	ASN	678	12.291	19.443	-6.212	1.00	31.96
ATOM	4586	C	ASN	678	8.164	17.385	-4.845	1.00	22.32
ATOM	4587	O	ASN	678	7.206	18.056	-5.205	1.00	21.78
ATOM	4588	N	CYS	679	8.093	16.064	-4.731	1.00	21.57
ATOM	4589	CA	CYS	679	6.845	15.393	-5.080	1.00	20.82
ATOM	4590	CB	CYS	679	7.088	13.904	-5.328	1.00	22.07
ATOM	4591	SG	CYS	679	6.942	12.839	-3.863	1.00	21.95
ATOM	4592	C	CYS	679	5.761	15.549	-4.017	1.00	20.00
ATOM	4593	O	CYS	679	6.045	15.896	-2.871	1.00	20.40
ATOM	4594	N	LEU	680	4.513	15.336	-4.432	1.00	19.40
ATOM	4595	CA	LEU	680	3.380	15.365	-3.520	1.00	18.90
ATOM	4596	CB	LEU	680	2.074	15.699	-4.242	1.00	17.17
ATOM	4597	CG	LEU	680	0.812	15.597	-3.385	1.00	16.51
ATOM	4598	CD1	LEU	680	0.927	16.514	-2.164	1.00	17.54
ATOM	4599	CD2	LEU	680	-0.406	15.947	-4.211	1.00	16.35
ATOM	4600	C	LEU	680	3.354	13.917	-3.056	1.00	18.47
ATOM	4601	O	LEU	680	3.069	13.014	-3.846	1.00	17.45
ATOM	4602	N	LEU	681	3.659	13.699	-1.782	1.00	18.84
ATOM	4603	CA	LEU	681	3.734	12.346	-1.245	1.00	18.21
ATOM	4604	CB	LEU	681	5.054	12.192	-0.474	1.00	18.92
ATOM	4605	CG	LEU	681	5.611	10.804	-0.137	1.00	20.05
ATOM	4606	CD1	LEU	681	7.014	10.970	0.436	1.00	18.66
ATOM	4607	CD2	LEU	681	4.714	10.091	0.868	1.00	21.30
ATOM	4608	C	LEU	681	2.566	11.966	-0.353	1.00	16.59
ATOM	4609	O	LEU	681	2.356	12.562	0.701	1.00	16.26
ATOM	4610	N	LEU	682	1.802	10.974	-0.790	1.00	16.90
ATOM	4611	CA	LEU	682	0.677	10.491	-0.007	1.00	17.13
ATOM	4612	CB	LEU	682	-0.520	10.151	-0.900	1.00	18.79
ATOM	4613	CG	LEU	682	-1.449	11.291	-1.333	1.00	22.69
ATOM	4614	CD1	LEU	682	-0.700	12.278	-2.227	1.00	23.30
ATOM	4615	CD2	LEU	682	-2.640	10.700	-2.070	1.00	23.40
ATOM	4616	C	LEU	682	1.156	9.233	0.690	1.00	16.92
ATOM	4617	O	LEU	682	1.870	8.430	0.098	1.00	18.52
ATOM	4618	N	ALA	683	0.803	9.074	1.957	1.00	14.89
ATOM	4619	CA	ALA	683	1.195	7.869	2.682	1.00	14.34
ATOM	4620	CB	ALA	683	2.223	8.201	3.753	1.00	14.56
ATOM	4621	C	ALA	683	-0.049	7.260	3.308	1.00	13.19
ATOM	4622	O	ALA	683	-0.893	7.967	3.857	1.00	12.69
ATOM	4623	N	ASP	684	-0.161	5.943	3.204	1.00	13.76
ATOM	4624	CA	ASP	684	-1.292	5.224	3.761	1.00	13.79
ATOM	4625	CB	ASP	684	-1.369	3.811	3.199	1.00	17.15
ATOM	4626	CG	ASP	684	-2.237	3.701	1.972	1.00	18.93
ATOM	4627	OD1	ASP	684	-2.988	4.647	1.660	1.00	17.43
ATOM	4628	OD2	ASP	684	-2.174	2.630	1.334	1.00	19.86
ATOM	4629	C	ASP	684	-1.192	5.050	5.256	1.00	14.01
ATOM	4630	O	ASP	684	-0.098	4.854	5.791	1.00	13.68
ATOM	4631	N	LEU	685	-2.329	5.126	5.938	1.00	14.34
ATOM	4632	CA	LEU	685	-2.335	4.819	7.359	1.00	15.73
ATOM	4633	CB	LEU	685	-3.430	5.568	8.128	1.00	17.73
ATOM	4634	CG	LEU	685	-3.114	7.008	8.538	1.00	18.92
ATOM	4635	CD1	LEU	685	-4.058	7.437	9.658	1.00	20.70
ATOM	4636	CD2	LEU	685	-1.670	7.106	9.013	1.00	20.52
ATOM	4637	C	LEU	685	-2.713	3.346	7.219	1.00	15.76
ATOM	4638	O	LEU	685	-3.731	3.022	6.616	1.00	14.86
ATOM	4639	N	PRO	686	-1.876	2.433	7.734	1.00	15.32
ATOM	4640	CD	PRO	686	-0.579	2.697	8.380	1.00	16.43
ATOM	4641	CA	PRO	686	-2.139	0.996	7.643	1.00	16.10
ATOM	4642	CB	PRO	686	-0.809	0.380	8.085	1.00	17.06
ATOM	4643	CG	PRO	686	-0.283	1.383	9.073	1.00	16.35
ATOM	4644	C	PRO	686	-3.327	0.488	8.458	1.00	16.41
ATOM	4645	O	PRO	686	-4.008	1.254	9.143	1.00	16.37
ATOM	4646	N	PHE	687	-3.563	-0.815	8.358	1.00	15.03
ATOM	4647	CA	PHE	687	-4.647	-1.494	9.062	1.00	15.40
ATOM	4648	CB	PHE	687	-4.470	-3.007	8.892	1.00	14.01

ATOM	4649	CG	PHE	687	-5.265	-3.841	9.861	1.00	15.81
ATOM	4650	CD1	PHE	687	-6.655	-3.762	9.905	1.00	16.16
ATOM	4651	CD2	PHE	687	-4.619	-4.758	10.685	1.00	14.41
ATOM	4652	CE1	PHE	687	-7.390	-4.595	10.751	1.00	16.59
ATOM	4653	CE2	PHE	687	-5.337	-5.597	11.535	1.00	14.28
ATOM	4654	CZ	PHE	687	-6.726	-5.516	11.568	1.00	18.27
ATOM	4655	C	PHE	687	-4.663	-1.106	10.538	1.00	13.34
ATOM	4656	O	PHE	687	-3.634	-1.136	11.209	1.00	12.84
ATOM	4657	N	MET	688	-5.841	-0.732	11.027	1.00	14.65
ATOM	4658	CA	MET	688	-6.035	-0.332	12.418	1.00	14.46
ATOM	4659	CB	MET	688	-5.922	-1.558	13.340	1.00	16.06
ATOM	4660	CG	MET	688	-6.712	-1.415	14.648	1.00	16.59
ATOM	4661	SD	MET	688	-8.529	-1.347	14.400	1.00	16.99
ATOM	4662	CE	MET	688	-8.858	-3.054	14.056	1.00	19.17
ATOM	4663	C	MET	688	-5.087	0.767	12.911	1.00	14.94
ATOM	4664	O	MET	688	-4.718	0.793	14.087	1.00	18.65
ATOM	4665	N	ALA	689	-4.680	1.676	12.031	1.00	14.13
ATOM	4666	CA	ALA	689	-3.803	2.765	12.466	1.00	13.66
ATOM	4667	CB	ALA	689	-2.719	3.034	11.421	1.00	15.41
ATOM	4668	C	ALA	689	-4.610	4.046	12.716	1.00	13.55
ATOM	4669	O	ALA	689	-4.051	5.085	13.051	1.00	14.39
ATOM	4670	N	TYR	690	-5.923	3.971	12.545	1.00	13.83
ATOM	4671	CA	TYR	690	-6.775	5.133	12.763	1.00	13.76
ATOM	4672	CB	TYR	690	-7.009	5.875	11.433	1.00	14.18
ATOM	4673	CG	TYR	690	-7.351	4.979	10.261	1.00	12.90
ATOM	4674	CD1	TYR	690	-8.666	4.841	9.818	1.00	12.68
ATOM	4675	CE1	TYR	690	-8.981	4.004	8.741	1.00	13.27
ATOM	4676	CD2	TYR	690	-6.352	4.257	9.599	1.00	13.42
ATOM	4677	CE2	TYR	690	-6.651	3.418	8.526	1.00	14.00
ATOM	4678	CZ	TYR	690	-7.963	3.297	8.101	1.00	13.04
ATOM	4679	OH	TYR	690	-8.246	2.468	7.030	1.00	14.87
ATOM	4680	C	TYR	690	-8.087	4.693	13.392	1.00	14.99
ATOM	4681	O	TYR	690	-9.166	5.144	13.005	1.00	15.19
ATOM	4682	N	ALA	691	-7.975	3.809	14.382	1.00	13.50
ATOM	4683	CA	ALA	691	-9.135	3.239	15.082	1.00	14.83
ATOM	4684	CB	ALA	691	-8.673	2.102	15.993	1.00	13.88
ATOM	4685	C	ALA	691	-9.924	4.257	15.888	1.00	13.52
ATOM	4686	O	ALA	691	-11.120	4.084	16.110	1.00	14.21
ATOM	4687	N	THR	692	-9.235	5.293	16.354	1.00	15.07
ATOM	4688	CA	THR	692	-9.856	6.374	17.109	1.00	16.94
ATOM	4689	CB	THR	692	-9.608	6.268	18.629	1.00	14.55
ATOM	4690	OG1	THR	692	-8.219	6.492	18.902	1.00	15.54
ATOM	4691	CG2	THR	692	-10.015	4.897	19.152	1.00	15.71
ATOM	4692	C	THR	692	-9.165	7.635	16.636	1.00	18.24
ATOM	4693	O	THR	692	-8.080	7.576	16.059	1.00	18.19
ATOM	4694	N	PRO	693	-9.790	8.794	16.864	1.00	17.17
ATOM	4695	CD	PRO	693	-11.169	8.968	17.351	1.00	18.47
ATOM	4696	CA	PRO	693	-9.209	10.074	16.457	1.00	18.57
ATOM	4697	CB	PRO	693	-10.195	11.090	17.032	1.00	20.23
ATOM	4698	CG	PRO	693	-11.512	10.368	16.873	1.00	19.28
ATOM	4699	C	PRO	693	-7.801	10.241	17.021	1.00	18.65
ATOM	4700	O	PRO	693	-6.853	10.516	16.283	1.00	15.76
ATOM	4701	N	GLU	694	-7.668	10.064	18.334	1.00	18.32
ATOM	4702	CA	GLU	694	-6.371	10.194	18.987	1.00	21.05
ATOM	4703	CB	GLU	694	-6.485	9.871	20.486	1.00	24.65
ATOM	4704	CG	GLU	694	-6.958	11.039	21.341	1.00	32.62
ATOM	4705	CD	GLU	694	-6.747	10.804	22.832	1.00	35.61
ATOM	4706	OE1	GLU	694	-5.624	10.413	23.221	1.00	40.42
ATOM	4707	OE2	GLU	694	-7.694	11.024	23.616	1.00	40.47
ATOM	4708	C	GLU	694	-5.290	9.321	18.352	1.00	18.88
ATOM	4709	O	GLU	694	-4.156	9.766	18.181	1.00	19.69
ATOM	4710	N	GLN	695	-5.621	8.078	18.013	1.00	18.90
ATOM	4711	CA	GLN	695	-4.623	7.207	17.383	1.00	17.55
ATOM	4712	CB	GLN	695	-5.095	5.759	17.375	1.00	19.52
ATOM	4713	CG	GLN	695	-5.109	5.143	18.762	1.00	25.76
ATOM	4714	CD	GLN	695	-5.606	3.722	18.754	1.00	26.70
ATOM	4715	OE1	GLN	695	-5.007	2.849	18.128	1.00	28.17
ATOM	4716	NE2	GLN	695	-6.709	3.477	19.455	1.00	28.69
ATOM	4717	C	GLN	695	-4.332	7.671	15.961	1.00	14.39
ATOM	4718	O	GLN	695	-3.197	7.598	15.498	1.00	14.23
ATOM	4719	N	ALA	696	-5.365	8.134	15.269	1.00	13.25
ATOM	4720	CA	ALA	696	-5.187	8.637	13.913	1.00	12.91
ATOM	4721	CB	ALA	696	-6.517	9.128	13.352	1.00	12.84
ATOM	4722	C	ALA	696	-4.184	9.786	13.965	1.00	13.88
ATOM	4723	O	ALA	696	-3.254	9.849	13.158	1.00	14.82
ATOM	4724	N	PHE	697	-4.371	10.691	14.924	1.00	13.95
ATOM	4725	CA	PHE	697	-3.478	11.849	15.071	1.00	14.74

ATOM	4726	CB	PHE	697	-3.847	12.688	16.307	1.00	14.39
ATOM	4727	CG	PHE	697	-5.272	13.165	16.326	1.00	14.70
ATOM	4728	CD1	PHE	697	-5.973	13.364	15.138	1.00	15.78
ATOM	4729	CD2	PHE	697	-5.913	13.417	17.535	1.00	17.31
ATOM	4730	CE1	PHE	697	-7.296	13.803	15.157	1.00	17.92
ATOM	4731	CE2	PHE	697	-7.235	13.858	17.567	1.00	18.65
ATOM	4732	CZ	PHE	697	-7.928	14.050	16.373	1.00	17.31
ATOM	4733	C	PHE	697	-2.015	11.456	15.206	1.00	16.50
ATOM	4734	O	PHE	697	-1.155	11.972	14.491	1.00	13.69
ATOM	4735	N	GLU	698	-1.747	10.543	16.138	1.00	15.66
ATOM	4736	CA	GLU	698	-0.391	10.082	16.418	1.00	17.86
ATOM	4737	CB	GLU	698	-0.409	9.111	17.603	1.00	21.29
ATOM	4738	CG	GLU	698	0.971	8.622	18.050	1.00	30.05
ATOM	4739	CD	GLU	698	1.631	9.547	19.063	1.00	34.72
ATOM	4740	OE1	GLU	698	1.784	10.753	18.766	1.00	37.42
ATOM	4741	OE2	GLU	698	1.998	9.064	20.165	1.00	40.64
ATOM	4742	C	GLU	698	0.248	9.399	15.213	1.00	16.35
ATOM	4743	O	GLU	698	1.385	9.702	14.836	1.00	16.77
ATOM	4744	N	ASN	699	-0.486	8.473	14.614	1.00	15.59
ATOM	4745	CA	ASN	699	0.033	7.743	13.471	1.00	15.22
ATOM	4746	CB	ASN	699	-0.838	6.506	13.200	1.00	14.54
ATOM	4747	CG	ASN	699	-0.748	5.488	14.328	1.00	17.82
ATOM	4748	OD1	ASN	699	0.320	5.316	14.927	1.00	15.96
ATOM	4749	ND2	ASN	699	-1.857	4.809	14.621	1.00	15.38
ATOM	4750	C	ASN	699	0.159	8.636	12.236	1.00	14.83
ATOM	4751	O	ASN	699	1.134	8.535	11.488	1.00	14.23
ATOM	4752	N	ALA	700	-0.802	9.529	12.026	1.00	14.50
ATOM	4753	CA	ALA	700	-0.710	10.431	10.880	1.00	15.69
ATOM	4754	CB	ALA	700	-1.961	11.288	10.781	1.00	14.56
ATOM	4755	C	ALA	700	0.525	11.316	11.044	1.00	15.36
ATOM	4756	O	ALA	700	1.253	11.555	10.089	1.00	14.90
ATOM	4757	N	ALA	701	0.770	11.793	12.262	1.00	15.92
ATOM	4758	CA	ALA	701	1.920	12.659	12.499	1.00	16.05
ATOM	4759	CB	ALA	701	1.888	13.201	13.920	1.00	15.03
ATOM	4760	C	ALA	701	3.232	11.930	12.244	1.00	15.03
ATOM	4761	O	ALA	701	4.184	12.509	11.730	1.00	16.35
ATOM	4762	N	THR	702	3.289	10.657	12.612	1.00	14.38
ATOM	4763	CA	THR	702	4.503	9.878	12.411	1.00	12.85
ATOM	4764	CB	THR	702	4.323	8.450	12.956	1.00	12.19
ATOM	4765	OG1	THR	702	4.034	8.522	14.354	1.00	12.71
ATOM	4766	CG2	THR	702	5.577	7.625	12.744	1.00	12.48
ATOM	4767	C	THR	702	4.861	9.817	10.928	1.00	15.73
ATOM	4768	O	THR	702	6.015	9.991	10.549	1.00	14.96
ATOM	4769	N	VAL	703	3.855	9.594	10.095	1.00	14.32
ATOM	4770	CA	VAL	703	4.061	9.494	8.665	1.00	17.24
ATOM	4771	CB	VAL	703	2.825	8.862	8.019	1.00	18.94
ATOM	4772	CG1	VAL	703	2.763	9.181	6.557	1.00	24.70
ATOM	4773	CG2	VAL	703	2.866	7.360	8.248	1.00	17.69
ATOM	4774	C	VAL	703	4.373	10.850	8.037	1.00	17.44
ATOM	4775	O	VAL	703	5.207	10.944	7.131	1.00	17.66
ATOM	4776	N	MET	704	3.705	11.895	8.519	1.00	15.75
ATOM	4777	CA	MET	704	3.942	13.246	8.020	1.00	18.71
ATOM	4778	CB	MET	704	2.926	14.231	8.615	1.00	19.63
ATOM	4779	CG	MET	704	1.461	13.959	8.263	1.00	24.43
ATOM	4780	SD	MET	704	1.046	14.259	6.517	1.00	27.09
ATOM	4781	CE	MET	704	1.225	16.072	6.424	1.00	25.27
ATOM	4782	C	MET	704	5.373	13.691	8.379	1.00	17.56
ATOM	4783	O	MET	704	6.075	14.240	7.534	1.00	15.47
ATOM	4784	N	ARG	705	5.810	13.459	9.619	1.00	16.57
ATOM	4785	CA	ARG	705	7.160	13.856	10.007	1.00	17.21
ATOM	4786	CB	ARG	705	7.424	13.597	11.499	1.00	18.12
ATOM	4787	CG	ARG	705	6.566	14.413	12.470	1.00	17.42
ATOM	4788	CD	ARG	705	7.139	14.379	13.887	1.00	18.37
ATOM	4789	NE	ARG	705	6.188	14.923	14.862	1.00	21.69
ATOM	4790	CZ	ARG	705	5.169	14.242	15.377	1.00	21.26
ATOM	4791	NH1	ARG	705	4.960	12.980	15.024	1.00	23.11
ATOM	4792	NH2	ARG	705	4.340	14.830	16.225	1.00	22.67
ATOM	4793	C	ARG	705	8.196	13.104	9.193	1.00	17.07
ATOM	4794	O	ARG	705	9.330	13.568	9.027	1.00	17.74
ATOM	4795	N	ALA	706	7.807	11.942	8.682	1.00	16.11
ATOM	4796	CA	ALA	706	8.709	11.112	7.891	1.00	15.58
ATOM	4797	CB	ALA	706	8.235	9.662	7.921	1.00	14.95
ATOM	4798	C	ALA	706	8.847	11.584	6.445	1.00	15.19
ATOM	4799	O	ALA	706	9.688	11.068	5.709	1.00	15.93
ATOM	4800	N	GLY	707	8.022	12.544	6.033	1.00	14.94
ATOM	4801	CA	GLY	707	8.130	13.053	4.677	1.00	15.89
ATOM	4802	C	GLY	707	6.853	13.203	3.871	1.00	16.03

ATOM	4803	O	GLY	707	6.851	13.882	2.843	1.00	17.90
ATOM	4804	N	ALA	708	5.764	12.591	4.321	1.00	15.28
ATOM	4805	CA	ALA	708	4.500	12.675	3.598	1.00	14.65
ATOM	4806	CB	ALA	708	3.524	11.646	4.140	1.00	11.62
ATOM	4807	C	ALA	708	3.870	14.060	3.677	1.00	15.64
ATOM	4808	O	ALA	708	4.102	14.809	4.628	1.00	14.42
ATOM	4809	N	ASN	709	3.061	14.394	2.675	1.00	16.20
ATOM	4810	CA	ASN	709	2.369	15.682	2.660	1.00	17.11
ATOM	4811	CB	ASN	709	2.482	16.363	1.297	1.00	16.35
ATOM	4812	CG	ASN	709	3.905	16.548	0.855	1.00	16.63
ATOM	4813	OD1	ASN	709	4.693	17.223	1.518	1.00	19.11
ATOM	4814	ND2	ASN	709	4.246	15.951	-0.271	1.00	13.26
ATOM	4815	C	ASN	709	0.890	15.455	2.931	1.00	17.83
ATOM	4816	O	ASN	709	0.163	16.388	3.252	1.00	18.60
ATOM	4817	N	MET	710	0.448	14.212	2.779	1.00	17.20
ATOM	4818	CA	MET	710	-0.955	13.871	2.969	1.00	16.87
ATOM	4819	CB	MET	710	-1.713	14.127	1.654	1.00	18.60
ATOM	4820	CG	MET	710	-3.200	13.816	1.659	1.00	20.01
ATOM	4821	SD	MET	710	-3.944	14.052	-0.001	1.00	21.60
ATOM	4822	CE	MET	710	-4.743	15.673	0.168	1.00	23.23
ATOM	4823	C	MET	710	-1.065	12.405	3.377	1.00	16.40
ATOM	4824	O	MET	710	-0.177	11.604	3.085	1.00	14.55
ATOM	4825	N	VAL	711	-2.152	12.070	4.065	1.00	16.03
ATOM	4826	CA	VAL	711	-2.391	10.712	4.528	1.00	16.57
ATOM	4827	CB	VAL	711	-2.552	10.697	6.065	1.00	19.08
ATOM	4828	CG1	VAL	711	-3.021	9.352	6.515	1.00	23.70
ATOM	4829	CG2	VAL	711	-1.230	11.054	6.730	1.00	17.88
ATOM	4830	C	VAL	711	-3.655	10.132	3.896	1.00	15.86
ATOM	4831	O	VAL	711	-4.635	10.851	3.690	1.00	14.07
ATOM	4832	N	LYS	712	-3.631	8.840	3.570	1.00	13.84
ATOM	4833	CA	LYS	712	-4.798	8.187	2.985	1.00	14.28
ATOM	4834	CB	LYS	712	-4.445	7.501	1.648	1.00	14.48
ATOM	4835	CG	LYS	712	-5.645	6.773	1.006	1.00	13.64
ATOM	4836	CD	LYS	712	-5.475	6.476	-0.491	1.00	14.90
ATOM	4837	CE	LYS	712	-4.471	5.361	-0.770	1.00	14.70
ATOM	4838	NZ	LYS	712	-4.882	4.059	-0.157	1.00	15.92
ATOM	4839	C	LYS	712	-5.371	7.160	3.960	1.00	15.39
ATOM	4840	O	LYS	712	-4.632	6.361	4.532	1.00	13.66
ATOM	4841	N	ILE	713	-6.683	7.203	4.167	1.00	15.54
ATOM	4842	CA	ILE	713	-7.349	6.260	5.060	1.00	16.63
ATOM	4843	CB	ILE	713	-7.800	6.949	6.379	1.00	18.02
ATOM	4844	CG2	ILE	713	-6.584	7.372	7.181	1.00	19.14
ATOM	4845	CG1	ILE	713	-8.667	8.173	6.072	1.00	20.03
ATOM	4846	CD1	ILE	713	-9.130	8.925	7.332	1.00	19.76
ATOM	4847	C	ILE	713	-8.553	5.642	4.351	1.00	18.46
ATOM	4848	O	ILE	713	-9.224	6.306	3.561	1.00	17.02
ATOM	4849	N	GLU	714	-8.809	4.363	4.622	1.00	17.38
ATOM	4850	CA	GLU	714	-9.917	3.642	3.995	1.00	18.87
ATOM	4851	CB	GLU	714	-9.530	2.180	3.735	1.00	18.90
ATOM	4852	CG	GLU	714	-8.183	1.990	3.074	1.00	22.06
ATOM	4853	CD	GLU	714	-7.866	0.530	2.797	1.00	23.62
ATOM	4854	OE1	GLU	714	-8.597	-0.357	3.292	1.00	22.57
ATOM	4855	OE2	GLU	714	-6.876	0.267	2.082	1.00	26.90
ATOM	4856	C	GLU	714	-11.162	3.649	4.867	1.00	18.79
ATOM	4857	O	GLU	714	-11.091	3.389	6.069	1.00	17.88
ATOM	4858	N	GLY	715	-12.304	3.940	4.256	1.00	18.83
ATOM	4859	CA	GLY	715	-13.545	3.956	5.002	1.00	20.89
ATOM	4860	C	GLY	715	-14.476	5.056	4.553	1.00	21.05
ATOM	4861	O	GLY	715	-14.063	5.980	3.855	1.00	22.49
ATOM	4862	N	GLY	716	-15.738	4.953	4.958	1.00	21.69
ATOM	4863	CA	GLY	716	-16.723	5.954	4.585	1.00	20.54
ATOM	4864	C	GLY	716	-17.198	6.833	5.731	1.00	19.68
ATOM	4865	O	GLY	716	-16.396	7.349	6.503	1.00	18.63
ATOM	4866	N	GLU	717	-18.513	7.004	5.828	1.00	20.60
ATOM	4867	CA	GLU	717	-19.143	7.828	6.857	1.00	23.06
ATOM	4868	CB	GLU	717	-20.631	7.498	6.948	1.00	26.89
ATOM	4869	CG	GLU	717	-21.512	8.436	6.154	1.00	35.80
ATOM	4870	CD	GLU	717	-21.970	9.634	6.959	1.00	37.28
ATOM	4871	OE1	GLU	717	-21.125	10.277	7.616	1.00	39.12
ATOM	4872	OE2	GLU	717	-23.183	9.932	6.925	1.00	39.31
ATOM	4873	C	GLU	717	-18.562	7.785	8.257	1.00	21.97
ATOM	4874	O	GLU	717	-18.327	8.830	8.865	1.00	20.61
ATOM	4875	N	TRP	718	-18.340	6.587	8.788	1.00	20.43
ATOM	4876	CA	TRP	718	-17.813	6.487	10.145	1.00	18.97
ATOM	4877	CB	TRP	718	-17.553	5.019	10.527	1.00	16.93
ATOM	4878	CG	TRP	718	-16.338	4.387	9.900	1.00	17.31
ATOM	4879	CD2	TRP	718	-15.033	4.287	10.481	1.00	15.20



ATOM	4880	CE2	TRP	718	-14.213	3.604	9.554	1.00	17.66
ATOM	4881	CE3	TRP	718	-14.475	4.707	11.698	1.00	16.72
ATOM	4882	CD1	TRP	718	-16.260	3.780	8.677	1.00	16.47
ATOM	4883	NE1	TRP	718	-14.986	3.305	8.462	1.00	17.35
ATOM	4884	CZ2	TRP	718	-12.863	3.332	9.804	1.00	17.75
ATOM	4885	CZ3	TRP	718	-13.133	4.436	11.947	1.00	18.17
ATOM	4886	CH2	TRP	718	-12.342	3.753	11.001	1.00	18.73
ATOM	4887	C	TRP	718	-16.554	7.318	10.372	1.00	17.36
ATOM	4888	O	TRP	718	-16.263	7.697	11.504	1.00	16.96
ATOM	4889	N	LEU	719	-15.829	7.624	9.295	1.00	17.61
ATOM	4890	CA	LEU	719	-14.587	8.398	9.392	1.00	16.01
ATOM	4891	CB	LEU	719	-13.634	7.998	8.264	1.00	19.58
ATOM	4892	CG	LEU	719	-12.805	6.729	8.475	1.00	20.53
ATOM	4893	CD1	LEU	719	-12.035	6.426	7.205	1.00	20.90
ATOM	4894	CD2	LEU	719	-11.869	6.919	9.657	1.00	21.41
ATOM	4895	C	LEU	719	-14.722	9.918	9.385	1.00	16.42
ATOM	4896	O	LEU	719	-13.726	10.625	9.538	1.00	15.51
ATOM	4897	N	VAL	720	-15.938	10.425	9.225	1.00	15.73
ATOM	4898	CA	VAL	720	-16.154	11.869	9.181	1.00	16.54
ATOM	4899	CB	VAL	720	-17.664	12.201	9.174	1.00	16.38
ATOM	4900	CG1	VAL	720	-17.875	13.699	9.349	1.00	16.79
ATOM	4901	CG2	VAL	720	-18.283	11.734	7.867	1.00	18.53
ATOM	4902	C	VAL	720	-15.478	12.644	10.306	1.00	15.87
ATOM	4903	O	VAL	720	-14.713	13.572	10.045	1.00	15.80
ATOM	4904	N	GLU	721	-15.745	12.268	11.552	1.00	15.71
ATOM	4905	CA	GLU	721	-15.133	12.966	12.680	1.00	16.66
ATOM	4906	CB	GLU	721	-15.589	12.346	14.003	1.00	18.48
ATOM	4907	CG	GLU	721	-14.947	12.976	15.227	1.00	22.68
ATOM	4908	CD	GLU	721	-15.367	12.293	16.516	1.00	25.74
ATOM	4909	OE1	GLU	721	-14.966	11.131	16.732	1.00	27.93
ATOM	4910	OE2	GLU	721	-16.107	12.920	17.303	1.00	27.98
ATOM	4911	C	GLU	721	-13.610	12.935	12.606	1.00	15.34
ATOM	4912	O	GLU	721	-12.951	13.942	12.857	1.00	14.72
ATOM	4913	N	THR	722	-13.055	11.772	12.274	1.00	14.80
ATOM	4914	CA	THR	722	-11.608	11.624	12.175	1.00	14.47
ATOM	4915	CB	THR	722	-11.213	10.164	11.860	1.00	16.94
ATOM	4916	OG1	THR	722	-11.580	9.322	12.964	1.00	19.05
ATOM	4917	CG2	THR	722	-9.710	10.057	11.628	1.00	15.42
ATOM	4918	C	THR	722	-11.034	12.536	11.099	1.00	15.01
ATOM	4919	O	THR	722	-10.001	13.167	11.299	1.00	14.67
ATOM	4920	N	VAL	723	-11.703	12.606	9.954	1.00	16.05
ATOM	4921	CA	VAL	723	-11.233	13.466	8.867	1.00	15.71
ATOM	4922	CB	VAL	723	-12.058	13.236	7.587	1.00	15.17
ATOM	4923	CG1	VAL	723	-11.612	14.206	6.486	1.00	14.07
ATOM	4924	CG2	VAL	723	-11.880	11.807	7.122	1.00	15.82
ATOM	4925	C	VAL	723	-11.307	14.943	9.268	1.00	16.42
ATOM	4926	O	VAL	723	-10.353	15.694	9.079	1.00	16.04
ATOM	4927	N	GLN	724	-12.437	15.354	9.831	1.00	18.63
ATOM	4928	CA	GLN	724	-12.599	16.743	10.241	1.00	19.28
ATOM	4929	CB	GLN	724	-13.980	16.955	10.869	1.00	22.80
ATOM	4930	CG	GLN	724	-15.145	16.539	9.983	1.00	27.70
ATOM	4931	CD	GLN	724	-16.488	16.695	10.675	1.00	30.60
ATOM	4932	OE1	GLN	724	-16.669	16.241	11.806	1.00	32.97
ATOM	4933	NE2	GLN	724	-17.440	17.328	9.996	1.00	32.67
ATOM	4934	C	GLN	724	-11.513	17.132	11.241	1.00	19.06
ATOM	4935	O	GLN	724	-10.880	18.180	11.107	1.00	16.76
ATOM	4936	N	MET	725	-11.288	16.283	12.239	1.00	15.76
ATOM	4937	CA	MET	725	-10.280	16.576	13.254	1.00	15.65
ATOM	4938	CB	MET	725	-10.440	15.634	14.445	1.00	14.12
ATOM	4939	CG	MET	725	-11.733	15.858	15.188	1.00	17.99
ATOM	4940	SD	MET	725	-11.866	14.852	16.672	1.00	21.90
ATOM	4941	CE	MET	725	-10.847	15.827	17.760	1.00	19.31
ATOM	4942	C	MET	725	-8.849	16.537	12.744	1.00	14.34
ATOM	4943	O	MET	725	-8.018	17.336	13.171	1.00	14.82
ATOM	4944	N	LEU	726	-8.553	15.615	11.834	1.00	13.91
ATOM	4945	CA	LEU	726	-7.207	15.540	11.292	1.00	15.00
ATOM	4946	CB	LEU	726	-7.067	14.333	10.366	1.00	13.52
ATOM	4947	CG	LEU	726	-6.658	13.016	11.034	1.00	15.57
ATOM	4948	CD1	LEU	726	-6.916	11.860	10.087	1.00	15.92
ATOM	4949	CD2	LEU	726	-5.205	13.077	11.443	1.00	15.18
ATOM	4950	C	LEU	726	-6.873	16.819	10.526	1.00	16.85
ATOM	4951	O	LEU	726	-5.783	17.376	10.664	1.00	16.74
ATOM	4952	N	THR	727	-7.822	17.275	9.716	1.00	17.73
ATOM	4953	CA	THR	727	-7.640	18.482	8.909	1.00	22.25
ATOM	4954	CB	THR	727	-8.885	18.755	8.050	1.00	23.64
ATOM	4955	OG1	THR	727	-9.135	17.618	7.207	1.00	25.71
ATOM	4956	CG2	THR	727	-8.669	19.989	7.171	1.00	26.68

ATOM	4957	C	THR	727	-7.332	19.719	9.747	1.00	22.81
ATOM	4958	O	THR	727	-6.363	20.442	9.473	1.00	22.47
ATOM	4959	N	GLU	728	-8.143	19.968	10.769	1.00	23.34
ATOM	4960	CA	GLU	728	-7.903	21.131	11.621	1.00	25.65
ATOM	4961	CB	GLU	728	-9.052	21.331	12.623	1.00	28.30
ATOM	4962	CG	GLU	728	-9.655	20.064	13.186	1.00	30.71
ATOM	4963	CD	GLU	728	-10.802	20.348	14.159	1.00	33.29
ATOM	4964	OE1	GLU	728	-11.541	21.333	13.952	1.00	35.04
ATOM	4965	OE2	GLU	728	-10.979	19.579	15.124	1.00	32.42
ATOM	4966	C	GLU	728	-6.570	21.013	12.353	1.00	24.86
ATOM	4967	O	GLU	728	-6.069	21.993	12.898	1.00	25.47
ATOM	4968	N	ARG	729	-5.986	19.816	12.353	1.00	24.34
ATOM	4969	CA	ARG	729	-4.700	19.612	13.010	1.00	22.72
ATOM	4970	CB	ARG	729	-4.757	18.372	13.907	1.00	20.17
ATOM	4971	CG	ARG	729	-5.646	18.597	15.121	1.00	18.27
ATOM	4972	CD	ARG	729	-5.986	17.326	15.876	1.00	16.32
ATOM	4973	NE	ARG	729	-6.862	17.615	17.011	1.00	17.63
ATOM	4974	CZ	ARG	729	-8.095	18.109	16.911	1.00	19.57
ATOM	4975	NH1	ARG	729	-8.621	18.374	15.725	1.00	20.07
ATOM	4976	NH2	ARG	729	-8.808	18.350	18.003	1.00	20.63
ATOM	4977	C	ARG	729	-3.554	19.524	12.004	1.00	22.25
ATOM	4978	O	ARG	729	-2.546	18.855	12.232	1.00	21.75
ATOM	4979	N	ALA	730	-3.737	20.211	10.880	1.00	22.50
ATOM	4980	CA	ALA	730	-2.732	20.296	9.825	1.00	21.57
ATOM	4981	CB	ALA	730	-1.419	20.801	10.417	1.00	20.27
ATOM	4982	C	ALA	730	-2.472	19.044	9.008	1.00	19.61
ATOM	4983	O	ALA	730	-1.474	18.978	8.301	1.00	18.88
ATOM	4984	N	VAL	731	-3.356	18.057	9.083	1.00	17.78
ATOM	4985	CA	VAL	731	-3.136	16.846	8.308	1.00	17.66
ATOM	4986	CB	VAL	731	-3.204	15.596	9.205	1.00	17.57
ATOM	4987	CG1	VAL	731	-2.985	14.339	8.363	1.00	16.76
ATOM	4988	CG2	VAL	731	-2.138	15.688	10.296	1.00	18.90
ATOM	4989	C	VAL	731	-4.114	16.673	7.153	1.00	17.88
ATOM	4990	O	VAL	731	-5.283	16.373	7.365	1.00	17.43
ATOM	4991	N	PRO	732	-3.652	16.892	5.912	1.00	17.50
ATOM	4992	CD	PRO	732	-2.351	17.419	5.475	1.00	19.31
ATOM	4993	CA	PRO	732	-4.554	16.727	4.773	1.00	18.43
ATOM	4994	CB	PRO	732	-3.771	17.325	3.607	1.00	19.15
ATOM	4995	CG	PRO	732	-2.359	17.103	4.002	1.00	23.17
ATOM	4996	C	PRO	732	-4.820	15.248	4.606	1.00	16.61
ATOM	4997	O	PRO	732	-3.927	14.415	4.797	1.00	15.91
ATOM	4998	N	VAL	733	-6.056	14.925	4.257	1.00	15.66
ATOM	4999	CA	VAL	733	-6.466	13.538	4.101	1.00	16.50
ATOM	5000	CB	VAL	733	-7.543	13.184	5.144	1.00	16.63
ATOM	5001	CG1	VAL	733	-7.868	11.690	5.069	1.00	21.58
ATOM	5002	CG2	VAL	733	-7.070	13.588	6.541	1.00	17.55
ATOM	5003	C	VAL	733	-7.038	13.185	2.737	1.00	16.46
ATOM	5004	O	VAL	733	-7.803	13.951	2.160	1.00	16.24
ATOM	5005	N	CYS	734	-6.668	12.010	2.242	1.00	13.15
ATOM	5006	CA	CYS	734	-7.184	11.490	0.983	1.00	13.80
ATOM	5007	CB	CYS	734	-6.051	10.957	0.120	1.00	11.02
ATOM	5008	SG	CYS	734	-6.600	10.069	-1.355	1.00	15.01
ATOM	5009	C	CYS	734	-8.075	10.324	1.397	1.00	14.24
ATOM	5010	O	CYS	734	-7.641	9.453	2.150	1.00	16.01
ATOM	5011	N	GLY	735	-9.314	10.323	0.921	1.00	12.03
ATOM	5012	CA	GLY	735	-10.229	9.250	1.246	1.00	13.47
ATOM	5013	C	GLY	735	-9.985	8.069	0.322	1.00	14.63
ATOM	5014	O	GLY	735	-9.214	8.174	-0.630	1.00	15.25
ATOM	5015	N	HIS	736	-10.647	6.946	0.593	1.00	14.52
ATOM	5016	CA	HIS	736	-10.484	5.736	-0.216	1.00	14.30
ATOM	5017	CB	HIS	736	-9.269	4.956	0.311	1.00	15.08
ATOM	5018	CG	HIS	736	-8.839	3.797	-0.542	1.00	16.75
ATOM	5019	CD2	HIS	736	-9.519	3.010	-1.411	1.00	17.45
ATOM	5020	ND1	HIS	736	-7.559	3.287	-0.488	1.00	16.99
ATOM	5021	CE1	HIS	736	-7.469	2.236	-1.282	1.00	18.58
ATOM	5022	NE2	HIS	736	-8.645	2.045	-1.854	1.00	16.34
ATOM	5023	C	HIS	736	-11.768	4.919	-0.089	1.00	14.46
ATOM	5024	O	HIS	736	-12.096	4.441	1.000	1.00	14.94
ATOM	5025	N	LEU	737	-12.497	4.777	-1.198	1.00	16.18
ATOM	5026	CA	LEU	737	-13.763	4.033	-1.215	1.00	17.93
ATOM	5027	CB	LEU	737	-14.946	4.992	-1.415	1.00	16.80
ATOM	5028	CG	LEU	737	-15.210	6.030	-0.320	1.00	13.20
ATOM	5029	CD1	LEU	737	-16.249	7.044	-0.807	1.00	13.79
ATOM	5030	CD2	LEU	737	-15.695	5.326	0.939	1.00	15.41
ATOM	5031	C	LEU	737	-13.776	2.993	-2.323	1.00	18.17
ATOM	5032	O	LEU	737	-12.963	3.040	-3.245	1.00	16.22
ATOM	5033	N	GLY	738	-14.715	2.060	-2.223	1.00	19.98

ATOM	5034	CA	GLY	738	-14.822	1.006	-3.209	1.00	22.29
ATOM	5035	C	GLY	738	-14.154	-0.215	-2.623	1.00	23.99
ATOM	5036	O	GLY	738	-14.432	-0.588	-1.487	1.00	23.25
ATOM	5037	N	LEU	739	-13.257	-0.822	-3.390	1.00	25.38
ATOM	5038	CA	LEU	739	-12.537	-1.999	-2.941	1.00	25.53
ATOM	5039	CB	LEU	739	-11.955	-2.731	-4.152	1.00	26.77
ATOM	5040	CG	LEU	739	-11.686	-4.230	-4.032	1.00	28.57
ATOM	5041	CD1	LEU	739	-10.971	-4.722	-5.291	1.00	29.59
ATOM	5042	CD2	LEU	739	-10.849	-4.508	-2.804	1.00	27.92
ATOM	5043	C	LEU	739	-11.413	-1.560	-1.998	1.00	26.90
ATOM	5044	O	LEU	739	-10.331	-1.173	-2.443	1.00	27.05
ATOM	5045	N	THR	740	-11.686	-1.605	-0.697	1.00	25.51
ATOM	5046	CA	THR	740	-10.708	-1.226	0.319	1.00	26.30
ATOM	5047	CB	THR	740	-11.399	-0.547	1.514	1.00	25.07
ATOM	5048	OG1	THR	740	-12.585	-1.272	1.852	1.00	26.66
ATOM	5049	CG2	THR	740	-11.783	0.886	1.170	1.00	28.04
ATOM	5050	C	THR	740	-9.986	-2.487	0.794	1.00	25.33
ATOM	5051	O	THR	740	-10.522	-3.252	1.594	1.00	26.61
ATOM	5052	N	PRO	741	-8.748	-2.704	0.312	1.00	25.06
ATOM	5053	CD	PRO	741	-8.001	-1.737	-0.510	1.00	26.23
ATOM	5054	CA	PRO	741	-7.909	-3.862	0.641	1.00	22.16
ATOM	5055	CB	PRO	741	-6.584	-3.542	-0.060	1.00	25.15
ATOM	5056	CG	PRO	741	-6.588	-2.048	-0.144	1.00	28.32
ATOM	5057	C	PRO	741	-7.736	-4.223	2.111	1.00	20.97
ATOM	5058	O	PRO	741	-7.560	-5.397	2.441	1.00	20.75
ATOM	5059	N	GLN	742	-7.783	-3.241	3.003	1.00	18.98
ATOM	5060	CA	GLN	742	-7.637	-3.556	4.425	1.00	18.22
ATOM	5061	CB	GLN	742	-7.516	-2.273	5.246	1.00	18.22
ATOM	5062	CG	GLN	742	-6.108	-1.698	5.237	1.00	19.20
ATOM	5063	CD	GLN	742	-6.037	-0.295	5.799	1.00	21.99
ATOM	5064	OE1	GLN	742	-6.773	0.056	6.722	1.00	23.77
ATOM	5065	NE2	GLN	742	-5.130	0.513	5.258	1.00	19.08
ATOM	5066	C	GLN	742	-8.813	-4.398	4.916	1.00	17.75
ATOM	5067	O	GLN	742	-8.659	-5.212	5.826	1.00	17.97
ATOM	5068	N	SER	743	-9.976	-4.209	4.296	1.00	18.05
ATOM	5069	CA	SER	743	-11.171	-4.950	4.673	1.00	17.66
ATOM	5070	CB	SER	743	-12.412	-4.063	4.535	1.00	19.22
ATOM	5071	OG	SER	743	-12.368	-2.992	5.473	1.00	19.51
ATOM	5072	C	SER	743	-11.347	-6.222	3.849	1.00	18.63
ATOM	5073	O	SER	743	-12.456	-6.742	3.725	1.00	19.29
ATOM	5074	N	VAL	744	-10.252	-6.733	3.291	1.00	17.52
ATOM	5075	CA	VAL	744	-10.320	-7.949	2.483	1.00	18.17
ATOM	5076	CB	VAL	744	-8.900	-8.422	2.066	1.00	20.91
ATOM	5077	CG1	VAL	744	-8.072	-8.777	3.294	1.00	20.41
ATOM	5078	CG2	VAL	744	-9.004	-9.617	1.126	1.00	21.66
ATOM	5079	C	VAL	744	-11.061	-9.087	3.206	1.00	18.57
ATOM	5080	O	VAL	744	-11.873	-9.786	2.594	1.00	17.85
ATOM	5081	N	ASN	745	-10.801	-9.267	4.501	1.00	18.34
ATOM	5082	CA	ASN	745	-11.451	-10.337	5.256	1.00	18.99
ATOM	5083	CB	ASN	745	-10.783	-10.501	6.624	1.00	18.10
ATOM	5084	CG	ASN	745	-9.306	-10.825	6.505	1.00	18.24
ATOM	5085	OD1	ASN	745	-8.931	-11.911	6.055	1.00	16.42
ATOM	5086	ND2	ASN	745	-8.462	-9.882	6.890	1.00	16.58
ATOM	5087	C	ASN	745	-12.947	-10.100	5.426	1.00	20.36
ATOM	5088	O	ASN	745	-13.718	-11.046	5.590	1.00	19.24
ATOM	5089	N	ILE	746	-13.352	-8.835	5.385	1.00	21.75
ATOM	5090	CA	ILE	746	-14.758	-8.474	5.512	1.00	24.03
ATOM	5091	CB	ILE	746	-14.928	-6.955	5.722	1.00	25.51
ATOM	5092	CG2	ILE	746	-16.393	-6.570	5.577	1.00	27.38
ATOM	5093	CG1	ILE	746	-14.406	-6.553	7.103	1.00	25.99
ATOM	5094	CD1	ILE	746	-15.274	-7.038	8.241	1.00	23.57
ATOM	5095	C	ILE	746	-15.481	-8.866	4.233	1.00	25.01
ATOM	5096	O	ILE	746	-16.510	-9.537	4.274	1.00	24.42
ATOM	5097	N	PHE	747	-14.927	-8.450	3.098	1.00	26.24
ATOM	5098	CA	PHE	747	-15.521	-8.743	1.796	1.00	27.97
ATOM	5099	CB	PHE	747	-14.900	-7.859	0.709	1.00	30.22
ATOM	5100	CG	PHE	747	-14.863	-6.396	1.056	1.00	33.12
ATOM	5101	CD1	PHE	747	-16.006	-5.739	1.504	1.00	34.45
ATOM	5102	CD2	PHE	747	-13.680	-5.672	0.924	1.00	34.85
ATOM	5103	CE1	PHE	747	-15.970	-4.380	1.819	1.00	35.58
ATOM	5104	CE2	PHE	747	-13.631	-4.313	1.235	1.00	35.40
ATOM	5105	CZ	PHE	747	-14.779	-3.668	1.683	1.00	35.63
ATOM	5106	C	PHE	747	-15.323	-10.203	1.412	1.00	29.09
ATOM	5107	O	PHE	747	-16.061	-10.742	0.587	1.00	28.25
ATOM	5108	N	GLY	748	-14.317	-10.837	2.006	1.00	29.00
ATOM	5109	CA	GLY	748	-14.042	-12.229	1.698	1.00	29.92
ATOM	5110	C	GLY	748	-13.185	-12.347	0.453	1.00	30.99

ATOM	5111	O	GLY	748	-13.228	-13.354	-0.253	1.00	33.17
ATOM	5112	N	GLY	749	-12.400	-11.309	0.184	1.00	30.50
ATOM	5113	CA	GLY	749	-11.539	-11.309	-0.985	1.00	31.40
ATOM	5114	C	GLY	749	-11.590	-9.973	-1.705	1.00	33.02
ATOM	5115	O	GLY	749	-12.279	-9.052	-1.269	1.00	31.79
ATOM	5116	N	TYR	750	-10.857	-9.862	-2.807	1.00	33.78
ATOM	5117	CA	TYR	750	-10.839	-8.626	-3.574	1.00	35.38
ATOM	5118	CB	TYR	750	-9.440	-8.377	-4.133	1.00	36.26
ATOM	5119	CG	TYR	750	-8.361	-8.445	-3.076	1.00	38.04
ATOM	5120	CD1	TYR	750	-7.861	-9.674	-2.639	1.00	39.14
ATOM	5121	CE1	TYR	750	-6.886	-9.742	-1.644	1.00	39.39
ATOM	5122	CD2	TYR	750	-7.858	-7.283	-2.490	1.00	38.52
ATOM	5123	CE2	TYR	750	-6.886	-7.339	-1.493	1.00	39.18
ATOM	5124	CZ	TYR	750	-6.404	-8.569	-1.077	1.00	39.42
ATOM	5125	OH	TYR	750	-5.441	-8.626	-0.095	1.00	39.23
ATOM	5126	C	TYR	750	-11.856	-8.715	-4.705	1.00	35.70
ATOM	5127	O	TYR	750	-11.591	-9.304	-5.753	1.00	36.41
ATOM	5128	N	LYS	751	-13.025	-8.127	-4.480	1.00	35.48
ATOM	5129	CA	LYS	751	-14.098	-8.156	-5.463	1.00	36.67
ATOM	5130	CB	LYS	751	-15.255	-8.989	-4.911	1.00	38.25
ATOM	5131	CG	LYS	751	-14.811	-10.343	-4.361	1.00	40.62
ATOM	5132	CD	LYS	751	-15.870	-10.976	-3.466	1.00	42.04
ATOM	5133	CE	LYS	751	-15.344	-12.243	-2.802	1.00	42.02
ATOM	5134	NZ	LYS	751	-16.334	-12.839	-1.854	1.00	42.38
ATOM	5135	C	LYS	751	-14.569	-6.741	-5.783	1.00	36.24
ATOM	5136	O	LYS	751	-14.371	-5.819	-4.993	1.00	36.25
ATOM	5137	N	VAL	752	-15.194	-6.573	-6.943	1.00	36.26
ATOM	5138	CA	VAL	752	-15.687	-5.264	-7.357	1.00	36.20
ATOM	5139	CB	VAL	752	-16.196	-5.296	-8.816	1.00	36.16
ATOM	5140	CG1	VAL	752	-16.794	-3.948	-9.191	1.00	36.40
ATOM	5141	CG2	VAL	752	-15.057	-5.641	-9.753	1.00	35.98
ATOM	5142	C	VAL	752	-16.826	-4.784	-6.461	1.00	36.45
ATOM	5143	O	VAL	752	-17.758	-5.533	-6.177	1.00	36.56
ATOM	5144	N	GLN	753	-16.740	-3.533	-6.018	1.00	36.02
ATOM	5145	CA	GLN	753	-17.772	-2.943	-5.169	1.00	36.40
ATOM	5146	CB	GLN	753	-17.156	-2.319	-3.915	1.00	37.30
ATOM	5147	CG	GLN	753	-17.031	-3.264	-2.730	1.00	42.36
ATOM	5148	CD	GLN	753	-15.996	-4.345	-2.946	1.00	44.63
ATOM	5149	OE1	GLN	753	-14.816	-4.055	-3.155	1.00	46.92
ATOM	5150	NE2	GLN	753	-16.428	-5.600	-2.889	1.00	44.11
ATOM	5151	C	GLN	753	-18.540	-1.875	-5.937	1.00	35.82
ATOM	5152	O	GLN	753	-18.138	-1.474	-7.028	1.00	34.76
ATOM	5153	N	GLY	754	-19.645	-1.417	-5.361	1.00	36.54
ATOM	5154	CA	GLY	754	-20.446	-0.397	-6.015	1.00	37.86
ATOM	5155	C	GLY	754	-21.571	-0.979	-6.848	1.00	38.80
ATOM	5156	O	GLY	754	-22.558	-0.301	-7.136	1.00	38.37
ATOM	5157	N	ARG	755	-21.413	-2.240	-7.237	1.00	40.53
ATOM	5158	CA	ARG	755	-22.405	-2.948	-8.037	1.00	42.45
ATOM	5159	CB	ARG	755	-22.018	-4.428	-8.145	1.00	43.43
ATOM	5160	CG	ARG	755	-20.750	-4.711	-8.951	1.00	44.60
ATOM	5161	CD	ARG	755	-21.069	-4.927	-10.423	1.00	44.87
ATOM	5162	NE	ARG	755	-19.883	-5.181	-11.242	1.00	44.38
ATOM	5163	CZ	ARG	755	-19.041	-6.196	-11.066	1.00	45.22
ATOM	5164	NH1	ARG	755	-19.240	-7.072	-10.090	1.00	45.18
ATOM	5165	NH2	ARG	755	-18.001	-6.343	-11.876	1.00	44.29
ATOM	5166	C	ARG	755	-23.788	-2.826	-7.399	1.00	42.83
ATOM	5167	O	ARG	755	-23.990	-3.237	-6.257	1.00	43.19
ATOM	5168	N	GLY	756	-24.734	-2.257	-8.139	1.00	43.66
ATOM	5169	CA	GLY	756	-26.079	-2.103	-7.616	1.00	44.45
ATOM	5170	C	GLY	756	-26.404	-0.696	-7.154	1.00	45.42
ATOM	5171	O	GLY	756	-25.510	0.087	-6.827	1.00	45.05
ATOM	5172	N	ASP	757	-27.693	-0.375	-7.123	1.00	45.36
ATOM	5173	CA	ASP	757	-28.151	0.944	-6.704	1.00	45.65
ATOM	5174	CB	ASP	757	-29.642	1.095	-7.011	1.00	48.39
ATOM	5175	CG	ASP	757	-29.954	0.882	-8.477	1.00	50.42
ATOM	5176	OD1	ASP	757	-29.426	1.648	-9.312	1.00	51.37
ATOM	5177	OD2	ASP	757	-30.725	-0.051	-8.795	1.00	51.94
ATOM	5178	C	ASP	757	-27.898	1.188	-5.219	1.00	43.87
ATOM	5179	O	ASP	757	-27.445	2.264	-4.827	1.00	43.00
ATOM	5180	N	GLU	758	-28.193	0.187	-4.396	1.00	42.25
ATOM	5181	CA	GLU	758	-27.988	0.303	-2.956	1.00	41.44
ATOM	5182	CB	GLU	758	-28.338	-1.013	-2.260	1.00	43.32
ATOM	5183	CG	GLU	758	-28.241	-0.945	-0.744	1.00	47.39
ATOM	5184	CD	GLU	758	-27.797	-2.259	-0.123	1.00	49.85
ATOM	5185	OE1	GLU	758	-28.446	-3.298	-0.389	1.00	50.43
ATOM	5186	OE2	GLU	758	-26.796	-2.248	0.632	1.00	50.64
ATOM	5187	C	GLU	758	-26.532	0.653	-2.653	1.00	39.44

ATOM	5188	O	GLU	758	-26.242	1.628	-1.956	1.00	37.55
ATOM	5189	N	ALA	759	-25.622	-0.160	-3.180	1.00	37.40
ATOM	5190	CA	ALA	759	-24.191	0.037	-2.981	1.00	34.93
ATOM	5191	CB	ALA	759	-23.420	-1.141	-3.568	1.00	35.45
ATOM	5192	C	ALA	759	-23.735	1.332	-3.639	1.00	33.03
ATOM	5193	O	ALA	759	-22.993	2.114	-3.045	1.00	31.60
ATOM	5194	N	GLY	760	-24.182	1.541	-4.873	1.00	31.34
ATOM	5195	CA	GLY	760	-23.819	2.735	-5.610	1.00	29.95
ATOM	5196	C	GLY	760	-24.143	4.016	-4.868	1.00	29.45
ATOM	5197	O	GLY	760	-23.272	4.866	-4.684	1.00	28.24
ATOM	5198	N	ASP	761	-25.396	4.152	-4.440	1.00	28.80
ATOM	5199	CA	ASP	761	-25.840	5.335	-3.714	1.00	28.80
ATOM	5200	CB	ASP	761	-27.343	5.248	-3.415	1.00	29.11
ATOM	5201	CG	ASP	761	-28.193	5.146	-4.676	1.00	29.37
ATOM	5202	OD1	ASP	761	-27.664	5.376	-5.782	1.00	29.25
ATOM	5203	OD2	ASP	761	-29.400	4.845	-4.556	1.00	31.42
ATOM	5204	C	ASP	761	-25.070	5.494	-2.410	1.00	28.23
ATOM	5205	O	ASP	761	-24.802	6.612	-1.960	1.00	26.71
ATOM	5206	N	GLN	762	-24.717	4.369	-1.798	1.00	28.59
ATOM	5207	CA	GLN	762	-23.970	4.396	-0.546	1.00	28.32
ATOM	5208	CB	GLN	762	-23.858	2.988	0.040	1.00	30.23
ATOM	5209	CG	GLN	762	-23.020	2.931	1.305	1.00	32.27
ATOM	5210	CD	GLN	762	-23.535	3.860	2.378	1.00	33.99
ATOM	5211	OE1	GLN	762	-24.663	3.718	2.852	1.00	36.79
ATOM	5212	NE2	GLN	762	-22.712	4.825	2.767	1.00	35.03
ATOM	5213	C	GLN	762	-22.571	4.973	-0.754	1.00	26.19
ATOM	5214	O	GLN	762	-22.091	5.757	0.065	1.00	24.24
ATOM	5215	N	LEU	763	-21.917	4.578	-1.842	1.00	25.52
ATOM	5216	CA	LEU	763	-20.575	5.078	-2.135	1.00	25.74
ATOM	5217	CB	LEU	763	-19.971	4.340	-3.337	1.00	28.01
ATOM	5218	CG	LEU	763	-19.364	2.960	-3.070	1.00	30.99
ATOM	5219	CD1	LEU	763	-18.850	2.357	-4.373	1.00	31.68
ATOM	5220	CD2	LEU	763	-18.224	3.087	-2.071	1.00	30.71
ATOM	5221	C	LEU	763	-20.602	6.576	-2.416	1.00	24.34
ATOM	5222	O	LEU	763	-19.725	7.319	-1.974	1.00	20.25
ATOM	5223	N	LEU	764	-21.616	7.013	-3.154	1.00	24.14
ATOM	5224	CA	LEU	764	-21.761	8.424	-3.488	1.00	24.45
ATOM	5225	CB	LEU	764	-22.988	8.633	-4.380	1.00	24.40
ATOM	5226	CG	LEU	764	-22.910	9.711	-5.461	1.00	26.78
ATOM	5227	CD1	LEU	764	-24.307	9.955	-6.006	1.00	27.16
ATOM	5228	CD2	LEU	764	-22.323	10.988	-4.906	1.00	26.33
ATOM	5229	C	LEU	764	-21.926	9.216	-2.192	1.00	22.36
ATOM	5230	O	LEU	764	-21.257	10.225	-1.978	1.00	21.39
ATOM	5231	N	SER	765	-22.823	8.748	-1.330	1.00	22.67
ATOM	5232	CA	SER	765	-23.064	9.415	-0.055	1.00	21.77
ATOM	5233	CB	SER	765	-24.134	8.676	0.745	1.00	21.69
ATOM	5234	OG	SER	765	-24.403	9.355	1.955	1.00	24.43
ATOM	5235	C	SER	765	-21.779	9.486	0.766	1.00	20.68
ATOM	5236	O	SER	765	-21.459	10.527	1.337	1.00	18.30
ATOM	5237	N	ASP	766	-21.050	8.373	0.832	1.00	19.16
ATOM	5238	CA	ASP	766	-19.801	8.338	1.585	1.00	19.55
ATOM	5239	CB	ASP	766	-19.213	6.917	1.623	1.00	19.61
ATOM	5240	CG	ASP	766	-19.907	6.011	2.643	1.00	23.80
ATOM	5241	OD1	ASP	766	-20.473	6.524	3.632	1.00	20.16
ATOM	5242	OD2	ASP	766	-19.863	4.774	2.458	1.00	24.88
ATOM	5243	C	ASP	766	-18.768	9.295	0.993	1.00	17.74
ATOM	5244	O	ASP	766	-18.074	9.998	1.727	1.00	17.68
ATOM	5245	N	ALA	767	-18.666	9.321	-0.332	1.00	18.82
ATOM	5246	CA	ALA	767	-17.708	10.200	-0.993	1.00	18.71
ATOM	5247	CB	ALA	767	-17.759	9.992	-2.501	1.00	18.07
ATOM	5248	C	ALA	767	-17.992	11.658	-0.647	1.00	18.35
ATOM	5249	O	ALA	767	-17.081	12.408	-0.289	1.00	17.25
ATOM	5250	N	LEU	768	-19.260	12.052	-0.745	1.00	18.76
ATOM	5251	CA	LEU	768	-19.674	13.421	-0.437	1.00	18.68
ATOM	5252	CB	LEU	768	-21.150	13.617	-0.796	1.00	19.27
ATOM	5253	CG	LEU	768	-21.490	13.710	-2.291	1.00	19.38
ATOM	5254	CD1	LEU	768	-22.991	13.530	-2.498	1.00	18.38
ATOM	5255	CD2	LEU	768	-21.036	15.068	-2.823	1.00	21.35
ATOM	5256	C	LEU	768	-19.465	13.744	1.033	1.00	18.16
ATOM	5257	O	LEU	768	-19.127	14.878	1.392	1.00	18.53
ATOM	5258	N	ALA	769	-19.669	12.746	1.886	1.00	15.98
ATOM	5259	CA	ALA	769	-19.502	12.936	3.319	1.00	15.17
ATOM	5260	CB	ALA	769	-20.038	11.726	4.069	1.00	17.07
ATOM	5261	C	ALA	769	-18.033	13.166	3.661	1.00	14.89
ATOM	5262	O	ALA	769	-17.714	13.986	4.519	1.00	16.01
ATOM	5263	N	LEU	770	-17.146	12.445	2.979	1.00	13.79
ATOM	5264	CA	LEU	770	-15.710	12.577	3.211	1.00	14.28

ATOM	5265	CB	LEU	770	-14.947	11.464	2.482	1.00	13.69
ATOM	5266	CG	LEU	770	-15.159	10.031	3.022	1.00	14.90
ATOM	5267	CD1	LEU	770	-14.652	9.989	2.028	1.00	14.19
ATOM	5268	CD2	LEU	770	-14.439	9.898	4.346	1.00	14.20
ATOM	5269	C	LEU	770	-15.250	13.940	2.713	1.00	14.23
ATOM	5270	O	LEU	770	-14.387	14.585	3.319	1.00	15.29
ATOM	5271	N	GLU	771	-15.826	14.385	1.601	1.00	15.62
ATOM	5272	CA	GLU	771	-15.457	15.685	1.049	1.00	14.95
ATOM	5273	CB	GLU	771	-16.126	15.892	-0.311	1.00	13.82
ATOM	5274	CG	GLU	771	-15.885	17.276	-0.887	1.00	14.20
ATOM	5275	CD	GLU	771	-16.600	17.471	-2.201	1.00	16.87
ATOM	5276	OE1	GLU	771	-17.837	17.270	-2.243	1.00	16.35
ATOM	5277	OE2	GLU	771	-15.931	17.824	-3.184	1.00	16.38
ATOM	5278	C	GLU	771	-15.874	16.793	2.015	1.00	15.89
ATOM	5279	O	GLU	771	-15.097	17.714	2.301	1.00	15.83
ATOM	5280	N	ALA	772	-17.104	16.696	2.512	1.00	15.87
ATOM	5281	CA	ALA	772	-17.653	17.677	3.449	1.00	17.16
ATOM	5282	CB	ALA	772	-19.133	17.384	3.695	1.00	16.98
ATOM	5283	C	ALA	772	-16.896	17.678	4.776	1.00	18.66
ATOM	5284	O	ALA	772	-16.855	18.695	5.472	1.00	17.21
ATOM	5285	N	ALA	773	-16.294	16.537	5.115	1.00	18.43
ATOM	5286	CA	ALA	773	-15.536	16.392	6.358	1.00	18.51
ATOM	5287	CB	ALA	773	-15.359	14.909	6.690	1.00	17.94
ATOM	5288	C	ALA	773	-14.170	17.067	6.265	1.00	17.57
ATOM	5289	O	ALA	773	-13.539	17.358	7.284	1.00	19.73
ATOM	5290	N	GLY	774	-13.714	17.309	5.040	1.00	18.75
ATOM	5291	CA	GLY	774	-12.424	17.954	4.853	1.00	16.12
ATOM	5292	C	GLY	774	-11.451	17.251	3.913	1.00	15.01
ATOM	5293	O	GLY	774	-10.395	17.797	3.600	1.00	13.07
ATOM	5294	N	ALA	775	-11.786	16.048	3.451	1.00	15.01
ATOM	5295	CA	ALA	775	-10.893	15.326	2.546	1.00	15.38
ATOM	5296	CB	ALA	775	-11.513	13.990	2.134	1.00	15.63
ATOM	5297	C	ALA	775	-10.610	16.171	1.308	1.00	15.18
ATOM	5298	O	ALA	775	-11.534	16.705	0.708	1.00	14.76
ATOM	5299	N	GLN	776	-9.337	16.270	0.924	1.00	14.50
ATOM	5300	CA	GLN	776	-8.934	17.071	-0.230	1.00	15.43
ATOM	5301	CB	GLN	776	-7.695	17.893	0.129	1.00	15.10
ATOM	5302	CG	GLN	776	-7.928	18.846	1.283	1.00	18.62
ATOM	5303	CD	GLN	776	-6.658	19.513	1.747	1.00	18.59
ATOM	5304	OE1	GLN	776	-6.002	20.221	0.984	1.00	24.99
ATOM	5305	NE2	GLN	776	-6.305	19.298	3.007	1.00	21.94
ATOM	5306	C	GLN	776	-8.657	16.233	-1.474	1.00	15.17
ATOM	5307	O	GLN	776	-8.344	16.765	-2.537	1.00	14.62
ATOM	5308	N	LEU	777	-8.767	14.918	-1.330	1.00	15.85
ATOM	5309	CA	LEU	777	-8.547	13.990	-2.429	1.00	15.20
ATOM	5310	CB	LEU	777	-7.057	13.673	-2.562	1.00	16.16
ATOM	5311	CG	LEU	777	-6.264	14.319	-3.689	1.00	22.07
ATOM	5312	CD1	LEU	777	-4.776	13.947	-3.529	1.00	20.46
ATOM	5313	CD2	LEU	777	-6.792	13.831	-5.042	1.00	23.78
ATOM	5314	C	LEU	777	-9.316	12.710	-2.125	1.00	15.07
ATOM	5315	O	LEU	777	-9.600	12.419	-0.966	1.00	12.13
ATOM	5316	N	LEU	778	-9.654	11.954	-3.163	1.00	13.83
ATOM	5317	CA	LEU	778	-10.375	10.701	-2.979	1.00	14.56
ATOM	5318	CB	LEU	778	-11.891	10.887	-3.176	1.00	14.01
ATOM	5319	CG	LEU	778	-12.722	9.593	-3.192	1.00	14.97
ATOM	5320	CD1	LEU	778	-12.716	8.948	-1.806	1.00	15.87
ATOM	5321	CD2	LEU	778	-14.150	9.893	-3.609	1.00	13.98
ATOM	5322	C	LEU	778	-9.892	9.647	-3.955	1.00	15.86
ATOM	5323	O	LEU	778	-9.731	9.913	-5.150	1.00	16.74
ATOM	5324	N	VAL	779	-9.639	8.450	-3.440	1.00	14.91
ATOM	5325	CA	VAL	779	-9.235	7.348	-4.295	1.00	15.20
ATOM	5326	CB	VAL	779	-8.057	6.528	-3.694	1.00	15.02
ATOM	5327	CG1	VAL	779	-7.850	5.242	-4.509	1.00	14.33
ATOM	5328	CG2	VAL	779	-6.774	7.354	-3.730	1.00	15.87
ATOM	5329	C	VAL	779	-10.465	6.453	-4.416	1.00	15.26
ATOM	5330	O	VAL	779	-11.171	6.222	-3.430	1.00	14.26
ATOM	5331	N	LEU	780	-10.725	5.982	-5.632	1.00	16.87
ATOM	5332	CA	LEU	780	-11.854	5.094	-5.928	1.00	18.23
ATOM	5333	CB	LEU	780	-12.807	5.737	-6.937	1.00	20.90
ATOM	5334	CG	LEU	780	-14.160	6.196	-6.413	1.00	24.41
ATOM	5335	CD1	LEU	780	-15.027	6.667	-7.586	1.00	22.61
ATOM	5336	CD2	LEU	780	-14.841	5.046	-5.677	1.00	24.16
ATOM	5337	C	LEU	780	-11.263	3.841	-6.535	1.00	17.70
ATOM	5338	O	LEU	780	-10.617	3.912	-7.580	1.00	18.28
ATOM	5339	N	GLU	781	-11.485	2.693	-5.895	1.00	17.11
ATOM	5340	CA	GLU	781	-10.913	1.434	-6.386	1.00	18.49
ATOM	5341	CB	GLU	781	-9.972	0.857	-5.314	1.00	19.29

ATOM	5342	CG	GLU	781	-9.242	-0.416	-5.728	1.00	19.49
ATOM	5343	CD	GLU	781	-8.175	-0.831	-4.738	1.00	23.53
ATOM	5344	OE1	GLU	781	-7.901	-0.070	-3.781	1.00	21.13
ATOM	5345	OE2	GLU	781	-7.597	-1.925	-4.921	1.00	25.81
ATOM	5346	C	GLU	781	-11.930	0.370	-6.808	1.00	20.03
ATOM	5347	O	GLU	781	-12.883	0.091	-6.088	1.00	21.13
ATOM	5348	N	CYS	782	-11.701	-0.207	-7.986	1.00	21.54
ATOM	5349	CA	CYS	782	-12.535	-1.260	-8.555	1.00	22.35
ATOM	5350	CB	CYS	782	-12.071	-2.623	-8.037	1.00	22.48
ATOM	5351	SG	CYS	782	-10.365	-2.991	-8.514	1.00	23.47
ATOM	5352	C	CYS	782	-14.024	-1.076	-8.314	1.00	23.36
ATOM	5353	O	CYS	782	-14.639	-1.733	-7.469	1.00	22.95
ATOM	5354	N	VAL	783	-14.586	-0.163	-9.088	1.00	23.52
ATOM	5355	CA	VAL	783	-15.988	0.173	-9.016	1.00	26.91
ATOM	5356	CB	VAL	783	-16.170	1.481	-8.199	1.00	28.96
ATOM	5357	CG1	VAL	783	-15.616	2.665	-8.975	1.00	29.79
ATOM	5358	CG2	VAL	783	-17.622	1.687	-7.843	1.00	32.62
ATOM	5359	C	VAL	783	-16.434	0.360	-10.467	1.00	26.23
ATOM	5360	O	VAL	783	-15.628	0.711	-11.326	1.00	26.43
ATOM	5361	N	PRO	784	-17.711	0.083	-10.770	1.00	26.23
ATOM	5362	CD	PRO	784	-18.792	-0.423	-9.913	1.00	27.16
ATOM	5363	CA	PRO	784	-18.177	0.256	-12.149	1.00	26.47
ATOM	5364	CB	PRO	784	-19.671	-0.087	-12.060	1.00	25.76
ATOM	5365	CG	PRO	784	-20.008	0.120	-10.612	1.00	27.94
ATOM	5366	C	PRO	784	-17.908	1.675	-12.644	1.00	26.66
ATOM	5367	O	PRO	784	-18.053	2.640	-11.893	1.00	27.09
ATOM	5368	N	VAL	785	-17.509	1.788	-13.906	1.00	26.20
ATOM	5369	CA	VAL	785	-17.191	3.075	-14.512	1.00	26.42
ATOM	5370	CB	VAL	785	-16.897	2.922	-16.014	1.00	26.52
ATOM	5371	CG1	VAL	785	-16.455	4.253	-16.602	1.00	27.04
ATOM	5372	CG2	VAL	785	-15.821	1.878	-16.221	1.00	26.53
ATOM	5373	C	VAL	785	-18.287	4.111	-14.343	1.00	26.76
ATOM	5374	O	VAL	785	-18.021	5.244	-13.939	1.00	23.64
ATOM	5375	N	GLU	786	-19.519	3.728	-14.664	1.00	26.86
ATOM	5376	CA	GLU	786	-20.639	4.648	-14.542	1.00	26.47
ATOM	5377	CB	GLU	786	-21.953	3.966	-14.959	1.00	29.51
ATOM	5378	CG	GLU	786	-21.954	2.441	-14.909	1.00	33.26
ATOM	5379	CD	GLU	786	-21.024	1.816	-15.941	1.00	33.35
ATOM	5380	OE1	GLU	786	-21.069	2.234	-17.115	1.00	35.72
ATOM	5381	OE2	GLU	786	-20.257	0.900	-15.578	1.00	36.70
ATOM	5382	C	GLU	786	-20.752	5.203	-13.125	1.00	25.75
ATOM	5383	O	GLU	786	-21.142	6.352	-12.934	1.00	25.18
ATOM	5384	N	LEU	787	-20.400	4.396	-12.130	1.00	25.85
ATOM	5385	CA	LEU	787	-20.470	4.854	-10.749	1.00	24.33
ATOM	5386	CB	LEU	787	-20.375	3.662	-9.797	1.00	27.24
ATOM	5387	CG	LEU	787	-20.739	3.896	-8.330	1.00	29.42
ATOM	5388	CD1	LEU	787	-20.937	2.553	-7.652	1.00	30.34
ATOM	5389	CD2	LEU	787	-19.666	4.691	-7.632	1.00	30.31
ATOM	5390	C	LEU	787	-19.338	5.846	-10.481	1.00	24.18
ATOM	5391	O	LEU	787	-19.519	6.834	-9.764	1.00	21.41
ATOM	5392	N	ALA	788	-18.171	5.579	-11.062	1.00	23.68
ATOM	5393	CA	ALA	788	-17.019	6.456	-10.895	1.00	23.32
ATOM	5394	CB	ALA	788	-15.794	5.843	-11.564	1.00	21.55
ATOM	5395	C	ALA	788	-17.337	7.817	-11.510	1.00	23.99
ATOM	5396	O	ALA	788	-16.890	8.855	-11.020	1.00	23.15
ATOM	5397	N	LYS	789	-18.117	7.808	-12.586	1.00	25.42
ATOM	5398	CA	LYS	789	-18.495	9.050	-13.254	1.00	25.60
ATOM	5399	CB	LYS	789	-19.273	8.758	-14.537	1.00	29.58
ATOM	5400	CG	LYS	789	-18.679	7.660	-15.392	1.00	34.03
ATOM	5401	CD	LYS	789	-19.410	7.537	-16.722	1.00	37.45
ATOM	5402	CE	LYS	789	-18.909	6.342	-17.513	1.00	37.98
ATOM	5403	NZ	LYS	789	-19.397	6.370	-18.912	1.00	39.55
ATOM	5404	C	LYS	789	-19.365	9.883	-12.323	1.00	24.36
ATOM	5405	O	LYS	789	-19.124	11.074	-12.140	1.00	23.55
ATOM	5406	N	ARG	790	-20.380	9.254	-11.737	1.00	23.75
ATOM	5407	CA	ARG	790	-21.275	9.959	-10.824	1.00	23.75
ATOM	5408	CB	ARG	790	-22.320	9.011	-10.229	1.00	26.20
ATOM	5409	CG	ARG	790	-23.400	8.564	-11.192	1.00	31.43
ATOM	5410	CD	ARG	790	-24.747	8.502	-10.483	1.00	34.23
ATOM	5411	NE	ARG	790	-24.766	7.564	-9.362	1.00	33.07
ATOM	5412	CZ	ARG	790	-25.553	7.694	-8.297	1.00	35.30
ATOM	5413	NH1	ARG	790	-26.380	8.725	-8.205	1.00	37.31
ATOM	5414	NH2	ARG	790	-25.525	6.793	-7.323	1.00	35.56
ATOM	5415	C	ARG	790	-20.510	10.612	-9.680	1.00	22.42
ATOM	5416	O	ARG	790	-20.752	11.767	-9.329	1.00	20.30
ATOM	5417	N	ILE	791	-19.584	9.864	-9.098	1.00	20.17
ATOM	5418	CA	ILE	791	-18.811	10.374	-7.979	1.00	18.67

ATOM	5419	CB	ILE	791	-17.999	9.232	-7.310	1.00	18.12
ATOM	5420	CG2	ILE	791	-16.996	9.802	-6.317	1.00	16.97
ATOM	5421	CG1	ILE	791	-18.971	8.276	-6.599	1.00	20.08
ATOM	5422	CD1	ILE	791	-18.299	7.133	-5.849	1.00	23.20
ATOM	5423	C	ILE	791	-17.883	11.504	-8.402	1.00	15.86
ATOM	5424	O	ILE	791	-17.806	12.533	-7.732	1.00	15.97
ATOM	5425	N	THR	792	-17.192	11.315	-9.519	1.00	17.74
ATOM	5426	CA	THR	792	-16.271	12.326	-10.014	1.00	19.29
ATOM	5427	CB	THR	792	-15.511	11.819	-11.242	1.00	19.17
ATOM	5428	OG1	THR	792	-14.779	10.636	-10.890	1.00	17.58
ATOM	5429	CG2	THR	792	-14.539	12.879	-11.737	1.00	18.00
ATOM	5430	C	THR	792	-17.004	13.622	-10.360	1.00	20.60
ATOM	5431	O	THR	792	-16.476	14.712	-10.145	1.00	20.78
ATOM	5432	N	GLU	793	-18.216	13.509	-10.891	1.00	20.13
ATOM	5433	CA	GLU	793	-18.971	14.706	-11.236	1.00	21.99
ATOM	5434	CB	GLU	793	-20.014	14.392	-12.307	1.00	24.27
ATOM	5435	CG	GLU	793	-19.412	13.848	-13.589	1.00	27.80
ATOM	5436	CD	GLU	793	-20.427	13.745	-14.703	1.00	31.99
ATOM	5437	OE1	GLU	793	-21.513	13.160	-14.477	1.00	33.12
ATOM	5438	OE2	GLU	793	-20.135	14.243	-15.808	1.00	34.84
ATOM	5439	C	GLU	793	-19.654	15.337	-10.023	1.00	21.66
ATOM	5440	O	GLU	793	-19.869	16.546	-9.990	1.00	22.52
ATOM	5441	N	ALA	794	-19.990	14.528	-9.023	1.00	20.04
ATOM	5442	CA	ALA	794	-20.648	15.054	-7.832	1.00	19.93
ATOM	5443	CB	ALA	794	-21.394	13.936	-7.102	1.00	21.36
ATOM	5444	C	ALA	794	-19.679	15.739	-6.868	1.00	20.03
ATOM	5445	O	ALA	794	-20.088	16.572	-6.064	1.00	20.59
ATOM	5446	N	LEU	795	-18.399	15.396	-6.940	1.00	19.04
ATOM	5447	CA	LEU	795	-17.424	15.990	-6.034	1.00	17.59
ATOM	5448	CB	LEU	795	-16.488	14.910	-5.483	1.00	20.28
ATOM	5449	CG	LEU	795	-17.098	13.760	-4.674	1.00	23.20
ATOM	5450	CD1	LEU	795	-15.962	12.889	-4.142	1.00	22.33
ATOM	5451	CD2	LEU	795	-17.934	14.285	-3.527	1.00	26.37
ATOM	5452	C	LEU	795	-16.586	17.098	-6.657	1.00	15.79
ATOM	5453	O	LEU	795	-16.268	17.065	-7.846	1.00	16.54
ATOM	5454	N	ALA	796	-16.227	18.082	-5.840	1.00	15.08
ATOM	5455	CA	ALA	796	-15.404	19.185	-6.310	1.00	15.70
ATOM	5456	CB	ALA	796	-15.684	20.435	-5.494	1.00	15.40
ATOM	5457	C	ALA	796	-13.936	18.789	-6.193	1.00	14.51
ATOM	5458	O	ALA	796	-13.108	19.193	-7.008	1.00	13.29
ATOM	5459	N	ILE	797	-13.617	17.989	-5.175	1.00	14.50
ATOM	5460	CA	ILE	797	-12.243	17.546	-4.972	1.00	13.86
ATOM	5461	CB	ILE	797	-12.029	16.916	-3.560	1.00	14.10
ATOM	5462	CG2	ILE	797	-12.315	17.932	-2.488	1.00	13.02
ATOM	5463	CG1	ILE	797	-12.932	15.694	-3.365	1.00	15.07
ATOM	5464	CD1	ILE	797	-12.592	14.909	-2.090	1.00	16.44
ATOM	5465	C	ILE	797	-11.862	16.526	-6.034	1.00	12.69
ATOM	5466	O	ILE	797	-12.720	15.843	-6.595	1.00	14.87
ATOM	5467	N	PRO	798	-10.565	16.419	-6.340	1.00	14.26
ATOM	5468	CD	PRO	798	-9.444	17.299	-5.974	1.00	15.87
ATOM	5469	CA	PRO	798	-10.181	15.446	-7.359	1.00	13.35
ATOM	5470	CB	PRO	798	-8.720	15.796	-7.660	1.00	15.01
ATOM	5471	CG	PRO	798	-8.256	16.532	-6.455	1.00	18.28
ATOM	5472	C	PRO	798	-10.377	14.004	-6.920	1.00	13.85
ATOM	5473	O	PRO	798	-10.202	13.665	-5.745	1.00	12.45
ATOM	5474	N	VAL	799	-10.764	13.169	-7.879	1.00	13.99
ATOM	5475	CA	VAL	799	-10.992	11.750	-7.633	1.00	15.13
ATOM	5476	CB	VAL	799	-12.432	11.349	-8.019	1.00	16.02
ATOM	5477	CG1	VAL	799	-12.605	9.845	-7.864	1.00	14.52
ATOM	5478	CG2	VAL	799	-13.422	12.080	-7.119	1.00	14.06
ATOM	5479	C	VAL	799	-9.994	10.941	-8.439	1.00	14.87
ATOM	5480	O	VAL	799	-9.949	11.029	-9.663	1.00	15.59
ATOM	5481	N	ILE	800	-9.186	10.162	-7.731	1.00	14.30
ATOM	5482	CA	ILE	800	-8.170	9.335	-8.350	1.00	14.45
ATOM	5483	CB	ILE	800	-6.861	9.375	-7.528	1.00	15.69
ATOM	5484	CG2	ILE	800	-5.830	8.414	-8.128	1.00	14.51
ATOM	5485	CG1	ILE	800	-6.315	10.810	-7.524	1.00	15.10
ATOM	5486	CD1	ILE	800	-5.074	11.021	-6.676	1.00	17.30
ATOM	5487	C	ILE	800	-8.691	7.911	-8.429	1.00	14.61
ATOM	5488	O	ILE	800	-9.113	7.334	-7.424	1.00	13.66
ATOM	5489	N	GLY	801	-8.672	7.349	-9.629	1.00	13.09
ATOM	5490	CA	GLY	801	-9.178	6.005	-9.783	1.00	12.12
ATOM	5491	C	GLY	801	-8.151	4.935	-10.061	1.00	13.23
ATOM	5492	O	GLY	801	-7.055	5.200	-10.549	1.00	12.71
ATOM	5493	N	ILE	802	-8.522	3.713	-9.703	1.00	14.81
ATOM	5494	CA	ILE	802	-7.712	2.533	-9.954	1.00	16.00
ATOM	5495	CB	ILE	802	-6.799	2.164	-8.739	1.00	15.76



ATOM	5496	CG2	ILE	802	-7.575	2.202	-7.439	1.00	18.40
ATOM	5497	CG1	ILE	802	-6.172	0.792	-8.967	1.00	20.03
ATOM	5498	CD1	ILE	802	-5.323	0.706	-10.195	1.00	20.86
ATOM	5499	C	ILE	802	-8.773	1.468	-10.223	1.00	15.80
ATOM	5500	O	ILE	802	-9.548	1.112	-9.343	1.00	16.52
ATOM	5501	N	GLY	803	-8.831	1.008	-11.466	1.00	18.14
ATOM	5502	CA	GLY	803	-9.826	0.024	-11.834	1.00	18.81
ATOM	5503	C	GLY	803	-11.211	0.649	-11.819	1.00	19.32
ATOM	5504	O	GLY	803	-12.206	-0.041	-11.600	1.00	20.70
ATOM	5505	N	ALA	804	-11.278	1.957	-12.049	1.00	17.72
ATOM	5506	CA	ALA	804	-12.544	2.676	-12.048	1.00	18.13
ATOM	5507	CB	ALA	804	-12.547	3.719	-10.922	1.00	16.05
ATOM	5508	C	ALA	804	-12.834	3.359	-13.382	1.00	17.22
ATOM	5509	O	ALA	804	-13.727	4.205	-13.478	1.00	19.29
ATOM	5510	N	GLY	805	-12.079	2.999	-14.412	1.00	17.74
ATOM	5511	CA	GLY	805	-12.289	3.595	-15.718	1.00	19.47
ATOM	5512	C	GLY	805	-11.524	4.893	-15.885	1.00	19.16
ATOM	5513	O	GLY	805	-10.832	5.336	-14.964	1.00	19.03
ATOM	5514	N	ASN	806	-11.646	5.509	-17.057	1.00	17.88
ATOM	5515	CA	ASN	806	-10.939	6.760	-17.324	1.00	18.23
ATOM	5516	CB	ASN	806	-10.410	6.784	-18.769	1.00	16.49
ATOM	5517	CG	ASN	806	-11.511	6.953	-19.810	1.00	18.05
ATOM	5518	OD1	ASN	806	-11.225	7.247	-20.972	1.00	19.59
ATOM	5519	ND2	ASN	806	-12.767	6.760	-19.404	1.00	12.05
ATOM	5520	C	ASN	806	-11.774	8.006	-17.062	1.00	18.00
ATOM	5521	O	ASN	806	-11.411	9.091	-17.497	1.00	18.99
ATOM	5522	N	VAL	807	-12.872	7.848	-16.331	1.00	17.63
ATOM	5523	CA	VAL	807	-13.756	8.965	-16.033	1.00	19.39
ATOM	5524	CB	VAL	807	-15.205	8.489	-15.860	1.00	21.52
ATOM	5525	CG1	VAL	807	-16.140	9.685	-15.847	1.00	27.73
ATOM	5526	CG2	VAL	807	-15.578	7.547	-16.990	1.00	24.38
ATOM	5527	C	VAL	807	-13.354	9.738	-14.783	1.00	18.27
ATOM	5528	O	VAL	807	-13.941	10.770	-14.478	1.00	16.18
ATOM	5529	N	THR	808	-12.361	9.237	-14.057	1.00	18.22
ATOM	5530	CA	THR	808	-11.899	9.915	-12.854	1.00	14.60
ATOM	5531	CB	THR	808	-11.203	8.920	-11.885	1.00	16.31
ATOM	5532	OG1	THR	808	-10.153	8.222	-12.567	1.00	14.17
ATOM	5533	CG2	THR	808	-12.215	7.923	-11.346	1.00	12.82
ATOM	5534	C	THR	808	-10.944	11.044	-13.250	1.00	16.13
ATOM	5535	O	THR	808	-10.476	11.103	-14.390	1.00	16.23
ATOM	5536	N	ASP	809	-10.675	11.948	-12.312	1.00	15.76
ATOM	5537	CA	ASP	809	-9.790	13.086	-12.556	1.00	15.32
ATOM	5538	CB	ASP	809	-9.912	14.095	-11.405	1.00	14.96
ATOM	5539	CG	ASP	809	-11.332	14.591	-11.221	1.00	15.54
ATOM	5540	OD1	ASP	809	-11.890	15.153	-12.191	1.00	17.46
ATOM	5541	OD2	ASP	809	-11.897	14.428	-10.126	1.00	17.01
ATOM	5542	C	ASP	809	-8.342	12.633	-12.691	1.00	15.52
ATOM	5543	O	ASP	809	-7.535	13.266	-13.379	1.00	14.60
ATOM	5544	N	GLY	810	-8.021	11.528	-12.031	1.00	15.18
ATOM	5545	CA	GLY	810	-6.673	11.011	-12.089	1.00	15.09
ATOM	5546	C	GLY	810	-6.630	9.501	-12.037	1.00	14.54
ATOM	5547	O	GLY	810	-7.656	8.831	-11.914	1.00	14.65
ATOM	5548	N	GLN	811	-5.424	8.964	-12.115	1.00	14.84
ATOM	5549	CA	GLN	811	-5.242	7.528	-12.093	1.00	14.60
ATOM	5550	CB	GLN	811	-4.929	7.035	-13.506	1.00	15.54
ATOM	5551	CG	GLN	811	-6.026	7.268	-14.523	1.00	16.05
ATOM	5552	CD	GLN	811	-7.254	6.423	-14.248	1.00	14.86
ATOM	5553	OE1	GLN	811	-7.145	5.274	-13.812	1.00	15.67
ATOM	5554	NE2	GLN	811	-8.428	6.982	-14.513	1.00	13.00
ATOM	5555	C	GLN	811	-4.095	7.146	-11.173	1.00	16.44
ATOM	5556	O	GLN	811	-3.179	7.933	-10.940	1.00	12.57
ATOM	5557	N	ILE	812	-4.151	5.932	-10.648	1.00	18.01
ATOM	5558	CA	ILE	812	-3.080	5.448	-9.795	1.00	21.55
ATOM	5559	CB	ILE	812	-3.394	5.680	-8.286	1.00	22.97
ATOM	5560	CG2	ILE	812	-4.477	4.732	-7.810	1.00	24.22
ATOM	5561	CG1	ILE	812	-2.116	5.495	-7.461	1.00	26.66
ATOM	5562	CD1	ILE	812	-2.168	6.141	-6.077	1.00	27.37
ATOM	5563	C	ILE	812	-2.880	3.968	-10.098	1.00	23.39
ATOM	5564	O	ILE	812	-3.781	3.292	-10.599	1.00	22.15
ATOM	5565	N	LEU	813	-1.678	3.478	-9.832	1.00	25.42
ATOM	5566	CA	LEU	813	-1.369	2.081	-10.072	1.00	27.98
ATOM	5567	CB	LEU	813	-1.231	1.814	-11.572	1.00	29.46
ATOM	5568	CG	LEU	813	-2.228	0.842	-12.220	1.00	33.93
ATOM	5569	CD1	LEU	813	-1.759	0.552	-13.636	1.00	36.02
ATOM	5570	CD2	LEU	813	-2.306	-0.460	-11.426	1.00	34.60
ATOM	5571	C	LEU	813	-0.075	1.704	-9.375	1.00	27.36
ATOM	5572	O	LEU	813	0.783	2.558	-9.138	1.00	24.70

ATOM	5573	N	VAL	814	0.046	0.422	-9.038	1.00	27.73
ATOM	5574	CA	VAL	814	1.238	-0.099	-8.388	1.00	24.77
ATOM	5575	CB	VAL	814	0.992	-1.504	-7.775	1.00	26.98
ATOM	5576	CG1	VAL	814	2.285	-2.045	-7.170	1.00	27.58
ATOM	5577	CG2	VAL	814	-0.088	-1.420	-6.705	1.00	29.29
ATOM	5578	C	VAL	814	2.313	-0.208	-9.456	1.00	21.90
ATOM	5579	O	VAL	814	2.128	-0.851	-10.487	1.00	19.33
ATOM	5580	N	MET	815	3.441	0.438	-9.202	1.00	20.34
ATOM	5581	CA	MET	815	4.546	0.432	-10.142	1.00	18.61
ATOM	5582	CB	MET	815	5.710	1.244	-9.564	1.00	15.22
ATOM	5583	CG	MET	815	6.183	0.786	-8.190	1.00	15.35
ATOM	5584	SD	MET	815	7.964	0.942	-8.143	1.00	16.36
ATOM	5585	CE	MET	815	8.452	-0.581	-8.957	1.00	11.50
ATOM	5586	C	MET	815	5.020	-0.973	-10.521	1.00	17.74
ATOM	5587	O	MET	815	5.483	-1.205	-11.639	1.00	19.67
ATOM	5588	N	HIS	816	4.908	-1.918	-9.597	1.00	17.17
ATOM	5589	CA	HIS	816	5.358	-3.276	-9.870	1.00	17.66
ATOM	5590	CB	HIS	816	5.319	-4.091	-8.570	1.00	16.96
ATOM	5591	CG	HIS	816	6.334	-3.639	-7.567	1.00	16.58
ATOM	5592	CD2	HIS	816	6.312	-2.620	-6.675	1.00	14.97
ATOM	5593	ND1	HIS	816	7.604	-4.173	-7.503	1.00	18.92
ATOM	5594	CE1	HIS	816	8.322	-3.500	-6.622	1.00	15.55
ATOM	5595	NE2	HIS	816	7.561	-2.551	-6.106	1.00	21.47
ATOM	5596	C	HIS	816	4.578	-3.953	-10.994	1.00	20.90
ATOM	5597	O	HIS	816	5.096	-4.844	-11.663	1.00	20.05
ATOM	5598	N	ASP	817	3.340	-3.524	-11.217	1.00	23.00
ATOM	5599	CA	ASP	817	2.526	-4.095	-12.294	1.00	25.53
ATOM	5600	CB	ASP	817	1.041	-4.013	-11.939	1.00	29.00
ATOM	5601	CG	ASP	817	0.689	-4.830	-10.710	1.00	32.54
ATOM	5602	OD1	ASP	817	0.878	-6.062	-10.742	1.00	34.60
ATOM	5603	OD2	ASP	817	0.224	-4.234	-9.716	1.00	34.24
ATOM	5604	C	ASP	817	2.786	-3.341	-13.602	1.00	26.31
ATOM	5605	O	ASP	817	2.743	-3.925	-14.687	1.00	27.79
ATOM	5606	N	ALA	818	3.064	-2.045	-13.489	1.00	27.64
ATOM	5607	CA	ALA	818	3.330	-1.195	-14.651	1.00	27.51
ATOM	5608	CB	ALA	818	3.461	0.262	-14.204	1.00	28.70
ATOM	5609	C	ALA	818	4.573	-1.609	-15.438	1.00	28.22
ATOM	5610	O	ALA	818	4.661	-1.348	-16.640	1.00	27.43
ATOM	5611	N	PHE	819	5.536	-2.242	-14.765	1.00	26.40
ATOM	5612	CA	PHE	819	6.764	-2.676	-15.434	1.00	25.70
ATOM	5613	CB	PHE	819	7.994	-2.133	-14.705	1.00	26.29
ATOM	5614	CG	PHE	819	7.889	-0.677	-14.359	1.00	27.48
ATOM	5615	CD1	PHE	819	7.412	0.237	-15.292	1.00	28.59
ATOM	5616	CD2	PHE	819	8.248	-0.219	-13.094	1.00	28.81
ATOM	5617	CE1	PHE	819	7.289	1.588	-14.975	1.00	29.43
ATOM	5618	CE2	PHE	819	8.131	1.132	-12.763	1.00	29.98
ATOM	5619	CZ	PHE	819	7.648	2.037	-13.707	1.00	30.70
ATOM	5620	C	PHE	819	6.869	-4.191	-15.551	1.00	25.12
ATOM	5621	O	PHE	819	7.935	-4.733	-15.846	1.00	24.68
ATOM	5622	N	GLY	820	5.753	-4.872	-15.323	1.00	24.44
ATOM	5623	CA	GLY	820	5.738	-6.320	-15.419	1.00	24.57
ATOM	5624	C	GLY	820	6.655	-7.010	-14.429	1.00	25.69
ATOM	5625	O	GLY	820	7.124	-8.120	-14.688	1.00	25.84
ATOM	5626	N	ILE	821	6.919	-6.360	-13.297	1.00	23.27
ATOM	5627	CA	ILE	821	7.779	-6.952	-12.277	1.00	22.14
ATOM	5628	CB	ILE	821	8.241	-5.891	-11.247	1.00	20.40
ATOM	5629	CG2	ILE	821	9.023	-6.565	-10.110	1.00	18.38
ATOM	5630	CG1	ILE	821	9.099	-4.839	-11.956	1.00	19.76
ATOM	5631	CD1	ILE	821	9.420	-3.621	-11.125	1.00	17.39
ATOM	5632	C	ILE	821	7.015	-8.065	-11.565	1.00	22.87
ATOM	5633	O	ILE	821	7.542	-9.153	-11.342	1.00	21.66
ATOM	5634	N	THR	822	5.757	-7.788	-11.238	1.00	24.23
ATOM	5635	CA	THR	822	4.916	-8.761	-10.562	1.00	28.76
ATOM	5636	CB	THR	822	3.548	-8.147	-10.196	1.00	29.81
ATOM	5637	OG1	THR	822	3.020	-7.441	-11.327	1.00	35.04
ATOM	5638	CG2	THR	822	3.697	-7.184	-9.036	1.00	29.52
ATOM	5639	C	THR	822	4.689	-10.014	-11.407	1.00	31.12
ATOM	5640	O	THR	822	4.675	-9.948	-12.638	1.00	28.97
ATOM	5641	N	GLY	823	4.514	-11.142	-10.718	1.00	33.39
ATOM	5642	CA	GLY	823	4.285	-12.431	-11.354	1.00	39.65
ATOM	5643	C	GLY	823	4.137	-12.444	-12.863	1.00	43.12
ATOM	5644	O	GLY	823	5.124	-12.358	-13.591	1.00	45.19
ATOM	5645	N	GLY	824	2.903	-12.560	-13.338	1.00	45.52
ATOM	5646	CA	GLY	824	2.671	-12.584	-14.769	1.00	47.84
ATOM	5647	C	GLY	824	1.199	-12.505	-15.103	1.00	49.56
ATOM	5648	O	GLY	824	0.818	-12.463	-16.271	1.00	50.56
ATOM	5649	N	HIS	825	0.368	-12.481	-14.068	1.00	50.83

ATOM	5650	CA	HIS	825	-1.077	-12.408	-14.248	1.00	52.44
ATOM	5651	CB	HIS	825	-1.737	-13.633	-13.610	1.00	54.90
ATOM	5652	CG	HIS	825	-1.153	-14.935	-14.063	1.00	57.95
ATOM	5653	CD2	HIS	825	-0.491	-15.900	-13.381	1.00	58.90
ATOM	5654	ND1	HIS	825	-1.195	-15.355	-15.376	1.00	59.02
ATOM	5655	CE1	HIS	825	-0.582	-16.522	-15.483	1.00	59.10
ATOM	5656	NE2	HIS	825	-0.146	-16.874	-14.287	1.00	58.90
ATOM	5657	C	HIS	825	-1.625	-11.131	-13.613	1.00	51.18
ATOM	5658	O	HIS	825	-2.490	-11.188	-12.738	1.00	51.71
ATOM	5659	N	ILE	826	-1.120	-9.982	-14.055	1.00	50.05
ATOM	5660	CA	ILE	826	-1.566	-8.698	-13.516	1.00	48.19
ATOM	5661	CB	ILE	826	-0.883	-7.510	-14.230	1.00	48.89
ATOM	5662	CG2	ILE	826	0.631	-7.612	-14.078	1.00	50.27
ATOM	5663	CG1	ILE	826	-1.280	-7.484	-15.707	1.00	49.07
ATOM	5664	CD1	ILE	826	-0.762	-6.273	-16.460	1.00	47.09
ATOM	5665	C	ILE	826	-3.077	-8.531	-13.640	1.00	46.15
ATOM	5666	O	ILE	826	-3.707	-9.119	-14.520	1.00	45.71
ATOM	5667	N	PRO	827	-3.678	-7.719	-12.758	1.00	44.37
ATOM	5668	CD	PRO	827	-3.037	-6.920	-11.700	1.00	43.85
ATOM	5669	CA	PRO	827	-5.124	-7.485	-12.780	1.00	43.13
ATOM	5670	CB	PRO	827	-5.344	-6.592	-11.560	1.00	44.15
ATOM	5671	CG	PRO	827	-4.058	-5.841	-11.457	1.00	45.19
ATOM	5672	C	PRO	827	-5.625	-6.849	-14.073	1.00	40.91
ATOM	5673	O	PRO	827	-4.887	-6.137	-14.753	1.00	40.25
ATOM	5674	N	LYS	828	-6.884	-7.116	-14.402	1.00	39.31
ATOM	5675	CA	LYS	828	-7.500	-6.580	-15.610	1.00	37.09
ATOM	5676	CB	LYS	828	-8.976	-6.986	-15.682	1.00	40.38
ATOM	5677	CG	LYS	828	-9.236	-8.338	-16.326	1.00	45.06
ATOM	5678	CD	LYS	828	-8.689	-9.480	-15.488	1.00	46.97
ATOM	5679	CE	LYS	828	-9.021	-10.818	-16.122	1.00	47.07
ATOM	5680	NZ	LYS	828	-8.544	-11.962	-15.299	1.00	48.51
ATOM	5681	C	LYS	828	-7.405	-5.069	-15.737	1.00	32.78
ATOM	5682	O	LYS	828	-7.356	-4.552	-16.847	1.00	32.06
ATOM	5683	N	PHE	829	-7.385	-4.364	-14.608	1.00	29.83
ATOM	5684	CA	PHE	829	-7.326	-2.903	-14.625	1.00	26.91
ATOM	5685	CB	PHE	829	-7.961	-2.332	-13.350	1.00	25.84
ATOM	5686	CG	PHE	829	-7.302	-2.794	-12.077	1.00	26.76
ATOM	5687	CD1	PHE	829	-6.061	-2.289	-11.684	1.00	25.54
ATOM	5688	CD2	PHE	829	-7.914	-3.752	-11.278	1.00	25.39
ATOM	5689	CE1	PHE	829	-5.447	-2.739	-10.514	1.00	27.51
ATOM	5690	CE2	PHE	829	-7.307	-4.203	-10.112	1.00	27.40
ATOM	5691	CZ	PHE	829	-6.071	-3.697	-9.728	1.00	26.75
ATOM	5692	C	PHE	829	-5.923	-2.332	-14.789	1.00	26.04
ATOM	5693	O	PHE	829	-5.766	-1.136	-15.010	1.00	26.02
ATOM	5694	N	ALA	830	-4.910	-3.184	-14.681	1.00	24.63
ATOM	5695	CA	ALA	830	-3.529	-2.736	-14.813	1.00	23.28
ATOM	5696	CB	ALA	830	-2.643	-3.490	-13.828	1.00	21.79
ATOM	5697	C	ALA	830	-2.997	-2.914	-16.229	1.00	22.75
ATOM	5698	O	ALA	830	-3.612	-3.579	-17.062	1.00	21.73
ATOM	5699	N	LYS	831	-1.842	-2.316	-16.495	1.00	21.73
ATOM	5700	CA	LYS	831	-1.209	-2.421	-17.801	1.00	20.75
ATOM	5701	CB	LYS	831	-1.694	-1.305	-18.731	1.00	22.17
ATOM	5702	CG	LYS	831	-0.965	-1.255	-20.074	1.00	22.12
ATOM	5703	CD	LYS	831	-1.486	-0.125	-20.950	1.00	24.84
ATOM	5704	CE	LYS	831	-0.669	0.000	-22.227	1.00	27.33
ATOM	5705	NZ	LYS	831	-1.132	1.104	-23.117	1.00	27.97
ATOM	5706	C	LYS	831	0.304	-2.345	-17.665	1.00	20.84
ATOM	5707	O	LYS	831	0.839	-1.515	-16.924	1.00	20.39
ATOM	5708	N	ASN	832	0.985	-3.226	-18.387	1.00	20.11
ATOM	5709	CA	ASN	832	2.442	-3.275	-18.393	1.00	20.06
ATOM	5710	CB	ASN	832	2.915	-4.696	-18.715	1.00	19.73
ATOM	5711	CG	ASN	832	4.430	-4.820	-18.755	1.00	19.21
ATOM	5712	OD1	ASN	832	5.145	-3.832	-18.897	1.00	21.54
ATOM	5713	ND2	ASN	832	4.921	-6.045	-18.653	1.00	18.62
ATOM	5714	C	ASN	832	2.933	-2.323	-19.480	1.00	20.14
ATOM	5715	O	ASN	832	2.993	-2.693	-20.653	1.00	19.00
ATOM	5716	N	PHE	833	3.283	-1.102	-19.087	1.00	20.67
ATOM	5717	CA	PHE	833	3.764	-0.102	-20.034	1.00	20.91
ATOM	5718	CB	PHE	833	3.696	1.301	-19.418	1.00	21.37
ATOM	5719	CG	PHE	833	2.298	1.809	-19.229	1.00	21.99
ATOM	5720	CD1	PHE	833	1.581	1.505	-18.075	1.00	21.53
ATOM	5721	CD2	PHE	833	1.679	2.557	-20.228	1.00	20.96
ATOM	5722	CE1	PHE	833	0.268	1.942	-17.919	1.00	23.22
ATOM	5723	CE2	PHE	833	0.367	2.997	-20.081	1.00	22.83
ATOM	5724	CZ	PHE	833	-0.345	2.689	-18.926	1.00	21.37
ATOM	5725	C	PHE	833	5.180	-0.373	-20.526	1.00	21.48
ATOM	5726	O	PHE	833	5.595	0.162	-21.556	1.00	22.31

ATOM	5727	N	LEU	834	5.919	-1.201	-19.793	1.00	19.73
ATOM	5728	CA	LEU	834	7.289	-1.541	-20.176	1.00	20.43
ATOM	5729	CB	LEU	834	8.037	-2.176	-18.999	1.00	19.89
ATOM	5730	CG	LEU	834	9.493	-2.566	-19.278	1.00	18.42
ATOM	5731	CD1	LEU	834	10.312	-1.300	-19.481	1.00	21.54
ATOM	5732	CD2	LEU	834	10.064	-3.383	-18.115	1.00	20.29
ATOM	5733	C	LEU	834	7.301	-2.513	-21.348	1.00	22.45
ATOM	5734	O	LEU	834	8.221	-2.506	-22.163	1.00	22.86
ATOM	5735	N	ALA	835	6.284	-3.364	-21.419	1.00	25.29
ATOM	5736	CA	ALA	835	6.190	-4.332	-22.504	1.00	29.51
ATOM	5737	CB	ALA	835	4.968	-5.221	-22.310	1.00	30.38
ATOM	5738	C	ALA	835	6.086	-3.582	-23.824	1.00	32.18
ATOM	5739	O	ALA	835	6.775	-3.911	-24.789	1.00	32.05
ATOM	5740	N	GLU	836	5.207	-2.581	-23.843	1.00	34.79
ATOM	5741	CA	GLU	836	4.973	-1.740	-25.013	1.00	38.46
ATOM	5742	CB	GLU	836	4.016	-0.595	-24.664	1.00	41.47
ATOM	5743	CG	GLU	836	2.611	-1.015	-24.239	1.00	45.34
ATOM	5744	CD	GLU	836	1.726	-1.390	-25.417	1.00	47.52
ATOM	5745	OE1	GLU	836	2.091	-2.328	-26.160	1.00	48.57
ATOM	5746	OE2	GLU	836	0.670	-0.743	-25.598	1.00	48.67
ATOM	5747	C	GLU	836	6.304	-1.151	-25.450	1.00	38.72
ATOM	5748	O	GLU	836	6.690	-1.249	-26.612	1.00	41.32
ATOM	5749	N	THR	837	6.997	-0.524	-24.506	1.00	37.17
ATOM	5750	CA	THR	837	8.284	0.072	-24.796	1.00	36.61
ATOM	5751	CB	THR	837	8.505	1.361	-23.987	1.00	36.83
ATOM	5752	OG1	THR	837	9.822	1.867	-24.253	1.00	38.80
ATOM	5753	CG2	THR	837	8.351	1.096	-22.489	1.00	35.24
ATOM	5754	C	THR	837	9.393	-0.920	-24.480	1.00	36.87
ATOM	5755	O	THR	837	9.207	-2.133	-24.616	1.00	38.89
ATOM	5756	N	GLY	838	10.546	-0.407	-24.067	1.00	33.88
ATOM	5757	CA	GLY	838	11.662	-1.272	-23.738	1.00	31.57
ATOM	5758	C	GLY	838	12.514	-0.674	-22.640	1.00	28.89
ATOM	5759	O	GLY	838	13.484	-1.277	-22.201	1.00	28.70
ATOM	5760	N	ASP	839	12.126	0.511	-22.186	1.00	28.03
ATOM	5761	CA	ASP	839	12.852	1.236	-21.154	1.00	27.44
ATOM	5762	CB	ASP	839	13.574	2.410	-21.834	1.00	32.86
ATOM	5763	CG	ASP	839	14.173	3.381	-20.859	1.00	35.56
ATOM	5764	OD1	ASP	839	13.475	4.350	-20.483	1.00	36.98
ATOM	5765	OD2	ASP	839	15.347	3.181	-20.470	1.00	40.04
ATOM	5766	C	ASP	839	11.886	1.714	-20.054	1.00	24.78
ATOM	5767	O	ASP	839	10.805	2.223	-20.349	1.00	24.31
ATOM	5768	N	ILE	840	12.274	1.550	-18.789	1.00	22.68
ATOM	5769	CA	ILE	840	11.418	1.952	-17.671	1.00	19.45
ATOM	5770	CB	ILE	840	12.087	1.625	-16.306	1.00	17.83
ATOM	5771	CG2	ILE	840	11.244	2.182	-15.154	1.00	17.98
ATOM	5772	CG1	ILE	840	12.249	0.111	-16.168	1.00	18.15
ATOM	5773	CD1	ILE	840	12.960	-0.332	-14.889	1.00	21.02
ATOM	5774	C	ILE	840	11.034	3.432	-17.708	1.00	18.92
ATOM	5775	O	ILE	840	9.879	3.783	-17.473	1.00	18.54
ATOM	5776	N	ARG	841	11.998	4.300	-17.995	1.00	19.90
ATOM	5777	CA	ARG	841	11.698	5.722	-18.067	1.00	19.12
ATOM	5778	CB	ARG	841	12.991	6.530	-18.204	1.00	18.56
ATOM	5779	CG	ARG	841	13.814	6.523	-16.916	1.00	20.62
ATOM	5780	CD	ARG	841	15.181	7.187	-17.067	1.00	21.49
ATOM	5781	NE	ARG	841	15.852	7.308	-15.774	1.00	21.81
ATOM	5782	CZ	ARG	841	16.347	6.286	-15.082	1.00	22.30
ATOM	5783	NH1	ARG	841	16.260	5.050	-15.556	1.00	21.26
ATOM	5784	NH2	ARG	841	16.914	6.501	-13.902	1.00	22.06
ATOM	5785	C	ARG	841	10.743	5.987	-19.232	1.00	18.94
ATOM	5786	O	ARG	841	9.842	6.822	-19.132	1.00	17.46
ATOM	5787	N	ALA	842	10.918	5.262	-20.331	1.00	19.89
ATOM	5788	CA	ALA	842	10.028	5.436	-21.469	1.00	20.59
ATOM	5789	CB	ALA	842	10.558	4.679	-22.677	1.00	22.80
ATOM	5790	C	ALA	842	8.638	4.921	-21.091	1.00	20.77
ATOM	5791	O	ALA	842	7.624	5.422	-21.583	1.00	22.42
ATOM	5792	N	ALA	843	8.591	3.922	-20.214	1.00	19.81
ATOM	5793	CA	ALA	843	7.320	3.346	-19.780	1.00	17.80
ATOM	5794	CB	ALA	843	7.566	2.046	-19.019	1.00	19.09
ATOM	5795	C	ALA	843	6.539	4.321	-18.910	1.00	17.75
ATOM	5796	O	ALA	843	5.310	4.411	-19.002	1.00	15.71
ATOM	5797	N	VAL	844	7.259	5.045	-18.059	1.00	17.72
ATOM	5798	CA	VAL	844	6.647	6.028	-17.183	1.00	17.43
ATOM	5799	CB	VAL	844	7.683	6.616	-16.185	1.00	15.55
ATOM	5800	CG1	VAL	844	7.074	7.786	-15.448	1.00	18.17
ATOM	5801	CG2	VAL	844	8.113	5.545	-15.169	1.00	15.06
ATOM	5802	C	VAL	844	6.063	7.159	-18.029	1.00	19.69
ATOM	5803	O	VAL	844	4.942	7.606	-17.790	1.00	19.85

ATOM	5804	N	ARG	845	6.817	7.618	-19.024	1.00	20.79
ATOM	5805	CA	ARG	845	6.325	8.695	-19.876	1.00	21.40
ATOM	5806	CB	ARG	845	7.394	9.118	-20.886	1.00	23.26
ATOM	5807	CG	ARG	845	8.621	9.752	-20.255	1.00	24.31
ATOM	5808	CD	ARG	845	9.502	10.422	-21.298	1.00	25.50
ATOM	5809	NE	ARG	845	10.126	9.470	-22.217	1.00	25.46
ATOM	5810	CZ	ARG	845	11.294	8.872	-22.001	1.00	26.44
ATOM	5811	NH1	ARG	845	11.976	9.121	-20.890	1.00	27.41
ATOM	5812	NH2	ARG	845	11.787	8.038	-22.908	1.00	24.69
ATOM	5813	C	ARG	845	5.054	8.281	-20.612	1.00	21.24
ATOM	5814	O	ARG	845	4.109	9.068	-20.733	1.00	19.90
ATOM	5815	N	GLN	846	5.029	7.044	-21.100	1.00	20.09
ATOM	5816	CA	GLN	846	3.862	6.549	-21.816	1.00	20.80
ATOM	5817	CB	GLN	846	4.140	5.163	-22.410	1.00	23.28
ATOM	5818	CG	GLN	846	2.932	4.529	-23.092	1.00	30.74
ATOM	5819	CD	GLN	846	3.280	3.266	-23.869	1.00	35.73
ATOM	5820	OE1	GLN	846	3.947	3.324	-24.904	1.00	38.70
ATOM	5821	NE2	GLN	846	2.833	2.117	-23.370	1.00	37.15
ATOM	5822	C	GLN	846	2.652	6.498	-20.889	1.00	19.10
ATOM	5823	O	GLN	846	1.527	6.809	-21.290	1.00	18.61
ATOM	5824	N	TYR	847	2.881	6.117	-19.639	1.00	18.58
ATOM	5825	CA	TYR	847	1.790	6.051	-18.676	1.00	18.17
ATOM	5826	CB	TYR	847	2.301	5.446	-17.365	1.00	17.16
ATOM	5827	CG	TYR	847	1.364	5.597	-16.189	1.00	14.88
ATOM	5828	CD1	TYR	847	0.037	5.160	-16.257	1.00	13.94
ATOM	5829	CE1	TYR	847	-0.810	5.277	-15.156	1.00	14.43
ATOM	5830	CD2	TYR	847	1.814	6.152	-14.995	1.00	14.30
ATOM	5831	CE2	TYR	847	0.980	6.272	-13.897	1.00	13.19
ATOM	5832	CZ	TYR	847	-0.321	5.839	-13.975	1.00	14.15
ATOM	5833	OH	TYR	847	-1.130	5.965	-12.876	1.00	15.40
ATOM	5834	C	TYR	847	1.222	7.453	-18.451	1.00	17.79
ATOM	5835	O	TYR	847	0.005	7.646	-18.429	1.00	18.16
ATOM	5836	N	MET	848	2.112	8.430	-18.299	1.00	19.31
ATOM	5837	CA	MET	848	1.705	9.813	-18.089	1.00	19.23
ATOM	5838	CB	MET	848	2.946	10.700	-17.931	1.00	21.20
ATOM	5839	CG	MET	848	3.724	10.462	-16.639	1.00	21.47
ATOM	5840	SD	MET	848	5.424	11.088	-16.716	1.00	22.85
ATOM	5841	CE	MET	848	5.109	12.850	-16.646	1.00	23.08
ATOM	5842	C	MET	848	0.861	10.304	-19.263	1.00	19.69
ATOM	5843	O	MET	848	-0.208	10.882	-19.075	1.00	19.25
ATOM	5844	N	ALA	849	1.339	10.051	-20.476	1.00	20.45
ATOM	5845	CA	ALA	849	0.643	10.487	-21.681	1.00	20.76
ATOM	5846	CB	ALA	849	1.537	10.280	-22.894	1.00	20.70
ATOM	5847	C	ALA	849	-0.701	9.797	-21.892	1.00	21.08
ATOM	5848	O	ALA	849	-1.699	10.456	-22.169	1.00	22.23
ATOM	5849	N	GLU	850	-0.740	8.475	-21.761	1.00	19.51
ATOM	5850	CA	GLU	850	-1.996	7.759	-21.960	1.00	20.22
ATOM	5851	CB	GLU	850	-1.751	6.250	-21.977	1.00	20.03
ATOM	5852	CG	GLU	850	-1.091	5.780	-23.261	1.00	21.40
ATOM	5853	CD	GLU	850	-0.997	4.282	-23.355	1.00	22.09
ATOM	5854	OE1	GLU	850	-1.802	3.593	-22.703	1.00	23.56
ATOM	5855	OE2	GLU	850	-0.124	3.792	-24.096	1.00	27.29
ATOM	5856	C	GLU	850	-3.075	8.108	-20.942	1.00	20.17
ATOM	5857	O	GLU	850	-4.268	7.947	-21.211	1.00	20.44
ATOM	5858	N	VAL	851	-2.666	8.574	-19.765	1.00	20.20
ATOM	5859	CA	VAL	851	-3.642	8.967	-18.752	1.00	18.55
ATOM	5860	CB	VAL	851	-2.995	9.092	-17.352	1.00	19.02
ATOM	5861	CG1	VAL	851	-3.957	9.783	-16.387	1.00	13.86
ATOM	5862	CG2	VAL	851	-2.663	7.700	-16.820	1.00	17.16
ATOM	5863	C	VAL	851	-4.266	10.305	-19.154	1.00	18.95
ATOM	5864	O	VAL	851	-5.489	10.453	-19.167	1.00	17.91
ATOM	5865	N	GLU	852	-3.424	11.270	-19.506	1.00	20.35
ATOM	5866	CA	GLU	852	-3.918	12.583	-19.895	1.00	22.19
ATOM	5867	CB	GLU	852	-2.748	13.567	-20.023	1.00	24.34
ATOM	5868	CG	GLU	852	-3.173	14.986	-20.385	1.00	28.53
ATOM	5869	CD	GLU	852	-2.073	16.009	-20.170	1.00	30.90
ATOM	5870	OE1	GLU	852	-2.210	17.137	-20.687	1.00	35.44
ATOM	5871	OE2	GLU	852	-1.079	15.696	-19.480	1.00	31.33
ATOM	5872	C	GLU	852	-4.745	12.560	-21.186	1.00	22.60
ATOM	5873	O	GLU	852	-5.634	13.393	-21.376	1.00	21.58
ATOM	5874	N	SER	853	-4.465	11.602	-22.064	1.00	23.29
ATOM	5875	CA	SER	853	-5.204	11.489	-23.322	1.00	24.06
ATOM	5876	CB	SER	853	-4.340	10.844	-24.405	1.00	26.77
ATOM	5877	OG	SER	853	-3.358	11.747	-24.879	1.00	34.21
ATOM	5878	C	SER	853	-6.473	10.671	-23.162	1.00	23.46
ATOM	5879	O	SER	853	-7.340	10.690	-24.033	1.00	21.96
ATOM	5880	N	GLY	854	-6.576	9.948	-22.052	1.00	20.67

ATOM	5881	CA	GLY	854	-7.752	9.131	-21.822	1.00	21.47
ATOM	5882	C	GLY	854	-7.620	7.744	-22.424	1.00	21.43
ATOM	5883	O	GLY	854	-8.552	6.947	-22.343	1.00	22.20
ATOM	5884	N	VAL	855	-6.472	7.459	-23.032	1.00	21.89
ATOM	5885	CA	VAL	855	-6.210	6.151	-23.636	1.00	22.78
ATOM	5886	CB	VAL	855	-4.871	6.155	-24.394	1.00	23.64
ATOM	5887	CG1	VAL	855	-4.521	4.744	-24.855	1.00	25.02
ATOM	5888	CG2	VAL	855	-4.967	7.087	-25.588	1.00	27.01
ATOM	5889	C	VAL	855	-6.160	5.071	-22.562	1.00	22.02
ATOM	5890	O	VAL	855	-6.572	3.928	-22.787	1.00	21.37
ATOM	5891	N	TYR	856	-5.632	5.448	-21.400	1.00	20.96
ATOM	5892	CA	TYR	856	-5.530	4.551	-20.252	1.00	19.68
ATOM	5893	CB	TYR	856	-4.073	4.276	-19.887	1.00	17.64
ATOM	5894	CG	TYR	856	-3.966	3.319	-18.729	1.00	18.23
ATOM	5895	CD1	TYR	856	-4.153	1.951	-18.923	1.00	17.91
ATOM	5896	CE1	TYR	856	-4.151	1.068	-17.849	1.00	17.59
ATOM	5897	CD2	TYR	856	-3.766	3.782	-17.424	1.00	19.26
ATOM	5898	CE2	TYR	856	-3.763	2.905	-16.339	1.00	16.18
ATOM	5899	CZ	TYR	856	-3.958	1.553	-16.560	1.00	18.50
ATOM	5900	OH	TYR	856	-3.975	0.676	-15.494	1.00	19.57
ATOM	5901	C	TYR	856	-6.208	5.195	-19.048	1.00	19.48
ATOM	5902	O	TYR	856	-5.951	6.360	-18.735	1.00	18.59
ATOM	5903	N	PRO	857	-7.057	4.435	-18.339	1.00	21.09
ATOM	5904	CD	PRO	857	-7.690	4.858	-17.079	1.00	22.39
ATOM	5905	CA	PRO	857	-7.373	3.034	-18.631	1.00	22.76
ATOM	5906	CB	PRO	857	-7.935	2.528	-17.309	1.00	23.94
ATOM	5907	CG	PRO	857	-8.658	3.724	-16.794	1.00	24.29
ATOM	5908	C	PRO	857	-8.355	2.860	-19.784	1.00	23.68
ATOM	5909	O	PRO	857	-9.263	3.670	-19.970	1.00	22.22
ATOM	5910	N	GLY	858	-8.166	1.797	-20.558	1.00	24.27
ATOM	5911	CA	GLY	858	-9.048	1.541	-21.684	1.00	24.39
ATOM	5912	C	GLY	858	-10.250	0.719	-21.272	1.00	25.24
ATOM	5913	O	GLY	858	-10.357	0.297	-20.122	1.00	23.87
ATOM	5914	N	GLU	859	-11.165	0.491	-22.205	1.00	25.45
ATOM	5915	CA	GLU	859	-12.344	-0.302	-21.891	1.00	28.69
ATOM	5916	CB	GLU	859	-13.185	-0.520	-23.151	1.00	31.54
ATOM	5917	CG	GLU	859	-14.435	-1.339	-22.908	1.00	34.32
ATOM	5918	CD	GLU	859	-15.420	-0.640	-21.992	1.00	37.49
ATOM	5919	OE1	GLU	859	-16.335	-1.318	-21.482	1.00	40.17
ATOM	5920	OE2	GLU	859	-15.284	0.587	-21.787	1.00	37.73
ATOM	5921	C	GLU	859	-11.911	-1.650	-21.312	1.00	28.31
ATOM	5922	O	GLU	859	-12.585	-2.207	-20.446	1.00	28.91
ATOM	5923	N	GLU	860	-10.774	-2.161	-21.779	1.00	30.25
ATOM	5924	CA	GLU	860	-10.255	-3.448	-21.313	1.00	31.44
ATOM	5925	CB	GLU	860	-9.016	-3.851	-22.119	1.00	35.44
ATOM	5926	CG	GLU	860	-9.077	-3.503	-23.593	1.00	41.38
ATOM	5927	CD	GLU	860	-8.747	-2.044	-23.853	1.00	43.62
ATOM	5928	OE1	GLU	860	-7.599	-1.637	-23.565	1.00	44.99
ATOM	5929	OE2	GLU	860	-9.633	-1.306	-24.342	1.00	44.03
ATOM	5930	C	GLU	860	-9.887	-3.455	-19.833	1.00	31.02
ATOM	5931	O	GLU	860	-9.957	-4.494	-19.177	1.00	30.50
ATOM	5932	N	HIS	861	-9.488	-2.296	-19.316	1.00	28.81
ATOM	5933	CA	HIS	861	-9.087	-2.169	-17.915	1.00	27.99
ATOM	5934	CB	HIS	861	-7.934	-1.170	-17.793	1.00	25.91
ATOM	5935	CG	HIS	861	-6.871	-1.344	-18.828	1.00	24.41
ATOM	5936	CD2	HIS	861	-6.519	-0.568	-19.880	1.00	22.82
ATOM	5937	ND1	HIS	861	-6.026	-2.432	-18.855	1.00	25.29
ATOM	5938	CE1	HIS	861	-5.199	-2.319	-19.879	1.00	22.41
ATOM	5939	NE2	HIS	861	-5.478	-1.197	-20.518	1.00	24.27
ATOM	5940	C	HIS	861	-10.235	-1.677	-17.044	1.00	27.60
ATOM	5941	O	HIS	861	-10.042	-1.385	-15.866	1.00	27.53
ATOM	5942	N	SER	862	-11.427	-1.594	-17.622	1.00	26.94
ATOM	5943	CA	SER	862	-12.580	-1.096	-16.888	1.00	27.95
ATOM	5944	CB	SER	862	-13.240	0.028	-17.686	1.00	27.74
ATOM	5945	OG	SER	862	-12.273	0.974	-18.118	1.00	28.11
ATOM	5946	C	SER	862	-13.620	-2.160	-16.548	1.00	29.39
ATOM	5947	O	SER	862	-13.764	-3.156	-17.258	1.00	28.79
ATOM	5948	N	PHE	863	-14.336	-1.936	-15.447	1.00	29.95
ATOM	5949	CA	PHE	863	-15.385	-2.842	-14.998	1.00	32.29
ATOM	5950	CB	PHE	863	-15.257	-3.141	-13.498	1.00	30.67
ATOM	5951	CG	PHE	863	-13.991	-3.858	-13.120	1.00	31.07
ATOM	5952	CD1	PHE	863	-12.912	-3.160	-12.587	1.00	31.09
ATOM	5953	CD2	PHE	863	-13.875	-5.234	-13.298	1.00	31.78
ATOM	5954	CE1	PHE	863	-11.737	-3.820	-12.231	1.00	30.30
ATOM	5955	CE2	PHE	863	-12.703	-5.905	-12.947	1.00	32.24
ATOM	5956	CZ	PHE	863	-11.633	-5.195	-12.413	1.00	32.64
ATOM	5957	C	PHE	863	-16.741	-2.197	-15.261	1.00	34.00

ATOM	5958	O	PHE	863	-16.819	-1.031	-15.651	1.00	34.45
ATOM	5959	N	HIS	864	-17.807	-2.959	-15.042	1.00	35.05
ATOM	5960	CA	HIS	864	-19.163	-2.465	-15.252	1.00	36.87
ATOM	5961	CB	HIS	864	-19.600	-2.700	-16.700	1.00	37.63
ATOM	5962	CG	HIS	864	-18.935	-1.789	-17.682	1.00	37.41
ATOM	5963	CD2	HIS	864	-18.064	-2.042	-18.688	1.00	38.33
ATOM	5964	ND1	HIS	864	-19.130	-0.425	-17.678	1.00	38.08
ATOM	5965	CE1	HIS	864	-18.408	0.123	-18.639	1.00	37.64
ATOM	5966	NE2	HIS	864	-17.752	-0.835	-19.266	1.00	37.77
ATOM	5967	C	HIS	864	-20.132	-3.147	-14.305	1.00	37.62
ATOM	5968	O	HIS	864	-21.218	-2.579	-14.068	1.00	38.24
ATOM	5969	OXT	HIS	864	-19.794	-4.250	-13.826	1.00	39.23
ATOM	5970	C1	KPL	865	-3.357	0.634	-5.095	1.00	39.96
ATOM	5971	C2	KPL	865	-3.550	1.896	-4.226	1.00	38.72
ATOM	5972	C3	KPL	865	-2.617	2.997	-4.740	1.00	39.62
ATOM	5973	C4	KPL	865	-5.003	2.393	-4.350	1.00	40.42
ATOM	5974	O1	KPL	865	-5.910	1.387	-3.884	1.00	45.23
ATOM	5975	C5	KPL	865	-3.211	1.589	-2.749	1.00	35.98
ATOM	5976	O2	KPL	865	-4.048	1.753	-1.886	1.00	36.91
ATOM	5977	C6	KPL	865	-1.855	1.081	-2.331	1.00	32.68
ATOM	5978	O3	KPL	865	-0.975	0.900	-3.150	1.00	30.34
ATOM	5979	O4	KPL	865	-1.620	0.826	-1.028	1.00	27.08
ATOM	5980	CB	MET	901	-12.712	-23.902	-0.148	1.00	60.92
ATOM	5981	CG	MET	901	-12.590	-25.152	-1.024	1.00	62.73
ATOM	5982	SD	MET	901	-10.891	-25.631	-1.435	1.00	65.23
ATOM	5983	CE	MET	901	-10.776	-25.064	-3.145	1.00	64.55
ATOM	5984	C	MET	901	-10.847	-22.440	-0.981	1.00	58.43
ATOM	5985	O	MET	901	-10.083	-23.083	-0.258	1.00	58.56
ATOM	5986	N	MET	901	-13.083	-22.466	-2.137	1.00	59.24
ATOM	5987	CA	MET	901	-12.364	-22.573	-0.834	1.00	59.60
ATOM	5988	N	LYS	902	-10.415	-21.594	-1.912	1.00	56.21
ATOM	5989	CA	LYS	902	-8.991	-21.379	-2.147	1.00	52.69
ATOM	5990	CB	LYS	902	-8.505	-22.296	-3.281	1.00	54.41
ATOM	5991	CG	LYS	902	-6.987	-22.462	-3.364	1.00	55.97
ATOM	5992	CD	LYS	902	-6.322	-21.347	-4.158	1.00	57.24
ATOM	5993	CE	LYS	902	-6.660	-21.451	-5.641	1.00	58.67
ATOM	5994	NZ	LYS	902	-5.962	-20.416	-6.455	1.00	59.28
ATOM	5995	C	LYS	902	-8.721	-19.915	-2.491	1.00	49.10
ATOM	5996	O	LYS	902	-8.688	-19.538	-3.664	1.00	49.44
ATOM	5997	N	PRO	903	-8.542	-19.065	-1.465	1.00	44.68
ATOM	5998	CD	PRO	903	-8.096	-17.671	-1.635	1.00	43.26
ATOM	5999	CA	PRO	903	-8.590	-19.422	-0.042	1.00	40.59
ATOM	6000	CB	PRO	903	-7.827	-18.281	0.615	1.00	41.44
ATOM	6001	CG	PRO	903	-8.221	-17.114	-0.230	1.00	42.64
ATOM	6002	C	PRO	903	-10.016	-19.540	0.488	1.00	37.14
ATOM	6003	O	PRO	903	-10.957	-19.042	-0.125	1.00	35.87
ATOM	6004	N	THR	904	-10.175	-20.205	1.628	1.00	32.92
ATOM	6005	CA	THR	904	-11.494	-20.369	2.227	1.00	29.48
ATOM	6006	CB	THR	904	-11.504	-21.543	3.238	1.00	29.39
ATOM	6007	OG1	THR	904	-11.161	-22.764	2.565	1.00	26.97
ATOM	6008	CG2	THR	904	-12.873	-21.690	3.869	1.00	26.63
ATOM	6009	C	THR	904	-11.857	-19.073	2.950	1.00	28.40
ATOM	6010	O	THR	904	-11.066	-18.560	3.739	1.00	27.37
ATOM	6011	N	THR	905	-13.047	-18.543	2.675	1.00	28.09
ATOM	6012	CA	THR	905	-13.487	-17.300	3.308	1.00	28.38
ATOM	6013	CB	THR	905	-13.470	-16.122	2.310	1.00	29.55
ATOM	6014	OG1	THR	905	-14.342	-16.416	1.211	1.00	31.91
ATOM	6015	CG2	THR	905	-12.066	-15.873	1.796	1.00	31.52
ATOM	6016	C	THR	905	-14.894	-17.398	3.888	1.00	27.90
ATOM	6017	O	THR	905	-15.603	-18.380	3.670	1.00	26.37
ATOM	6018	N	ILE	906	-15.288	-16.370	4.633	1.00	28.35
ATOM	6019	CA	ILE	906	-16.611	-16.331	5.244	1.00	29.75
ATOM	6020	CB	ILE	906	-16.854	-14.979	5.961	1.00	30.43
ATOM	6021	CG2	ILE	906	-18.113	-15.061	6.819	1.00	29.82
ATOM	6022	CG1	ILE	906	-15.659	-14.641	6.856	1.00	32.57
ATOM	6023	CD1	ILE	906	-15.638	-13.192	7.341	1.00	34.53
ATOM	6024	C	ILE	906	-17.661	-16.505	4.151	1.00	30.16
ATOM	6025	O	ILE	906	-18.729	-17.073	4.384	1.00	29.90
ATOM	6026	N	SER	907	-17.340	-16.021	2.955	1.00	31.30
ATOM	6027	CA	SER	907	-18.244	-16.107	1.810	1.00	32.70
ATOM	6028	CB	SER	907	-17.545	-15.593	0.547	1.00	33.26
ATOM	6029	OG	SER	907	-16.935	-14.332	0.770	1.00	34.50
ATOM	6030	C	SER	907	-18.700	-17.544	1.581	1.00	32.03
ATOM	6031	O	SER	907	-19.860	-17.793	1.255	1.00	31.78
ATOM	6032	N	LEU	908	-17.777	-18.485	1.757	1.00	32.10
ATOM	6033	CA	LEU	908	-18.071	-19.900	1.563	1.00	31.83
ATOM	6034	CB	LEU	908	-16.783	-20.723	1.643	1.00	33.59

ATOM	6035	CG	LEU	908	-16.563	-21.785	0.566	1.00	35.17
ATOM	6036	CD1	LEU	908	-15.600	-22.822	1.103	1.00	34.73
ATOM	6037	CD2	LEU	908	-17.877	-22.441	0.173	1.00	36.87
ATOM	6038	C	LEU	908	-19.073	-20.437	2.586	1.00	30.86
ATOM	6039	O	LEU	908	-20.056	-21.087	2.223	1.00	31.03
ATOM	6040	N	LEU	909	-18.818	-20.176	3.865	1.00	29.63
ATOM	6041	CA	LEU	909	-19.705	-20.643	4.926	1.00	28.90
ATOM	6042	CB	LEU	909	-19.179	-20.219	6.297	1.00	26.59
ATOM	6043	CG	LEU	909	-17.783	-20.723	6.669	1.00	26.10
ATOM	6044	CD1	LEU	909	-17.476	-20.315	8.102	1.00	25.81
ATOM	6045	CD2	LEU	909	-17.721	-22.229	6.519	1.00	27.17
ATOM	6046	C	LEU	909	-21.109	-20.093	4.750	1.00	29.37
ATOM	6047	O	LEU	909	-22.092	-20.765	5.056	1.00	28.78
ATOM	6048	N	GLN	910	-21.198	-18.861	4.266	1.00	30.45
ATOM	6049	CA	GLN	910	-22.494	-18.234	4.050	1.00	33.43
ATOM	6050	CB	GLN	910	-22.306	-16.767	3.659	1.00	33.71
ATOM	6051	CG	GLN	910	-23.589	-15.949	3.626	1.00	37.45
ATOM	6052	CD	GLN	910	-24.345	-15.976	4.944	1.00	37.83
ATOM	6053	OE1	GLN	910	-25.058	-16.935	5.250	1.00	38.97
ATOM	6054	NE2	GLN	910	-24.182	-14.924	5.738	1.00	36.67
ATOM	6055	C	GLN	910	-23.205	-19.006	2.945	1.00	33.53
ATOM	6056	O	GLN	910	-24.405	-19.258	3.028	1.00	33.64
ATOM	6057	N	LYS	911	-22.451	-19.389	1.919	1.00	35.95
ATOM	6058	CA	LYS	911	-23.004	-20.154	0.811	1.00	36.69
ATOM	6059	CB	LYS	911	-21.947	-20.387	-0.269	1.00	38.54
ATOM	6060	CG	LYS	911	-22.480	-21.146	-1.478	1.00	41.44
ATOM	6061	CD	LYS	911	-21.484	-22.170	-2.010	1.00	42.22
ATOM	6062	CE	LYS	911	-20.210	-21.525	-2.522	1.00	43.30
ATOM	6063	NZ	LYS	911	-19.319	-22.540	-3.158	1.00	44.28
ATOM	6064	C	LYS	911	-23.488	-21.504	1.326	1.00	36.17
ATOM	6065	O	LYS	911	-24.545	-21.989	0.927	1.00	36.29
ATOM	6066	N	TYR	912	-22.702	-22.108	2.214	1.00	35.44
ATOM	6067	CA	TYR	912	-23.041	-23.407	2.789	1.00	33.78
ATOM	6068	CB	TYR	912	-21.945	-23.862	3.758	1.00	35.49
ATOM	6069	CG	TYR	912	-20.707	-24.422	3.091	1.00	37.41
ATOM	6070	CD1	TYR	912	-19.533	-24.628	3.820	1.00	38.67
ATOM	6071	CE1	TYR	912	-18.395	-25.159	3.217	1.00	39.92
ATOM	6072	CD2	TYR	912	-20.710	-24.766	1.737	1.00	38.60
ATOM	6073	CE2	TYR	912	-19.580	-25.299	1.127	1.00	40.16
ATOM	6074	CZ	TYR	912	-18.428	-25.493	1.871	1.00	40.30
ATOM	6075	OH	TYR	912	-17.310	-26.021	1.270	1.00	42.12
ATOM	6076	C	TYR	912	-24.375	-23.390	3.516	1.00	33.39
ATOM	6077	O	TYR	912	-25.128	-24.359	3.460	1.00	31.55
ATOM	6078	N	LYS	913	-24.663	-22.297	4.211	1.00	32.88
ATOM	6079	CA	LYS	913	-25.920	-22.202	4.936	1.00	35.58
ATOM	6080	CB	LYS	913	-25.914	-20.999	5.878	1.00	33.03
ATOM	6081	CG	LYS	913	-27.182	-20.898	6.697	1.00	32.07
ATOM	6082	CD	LYS	913	-27.072	-19.884	7.815	1.00	29.62
ATOM	6083	CE	LYS	913	-28.360	-19.861	8.616	1.00	28.34
ATOM	6084	NZ	LYS	913	-28.225	-19.120	9.891	1.00	28.41
ATOM	6085	C	LYS	913	-27.092	-22.086	3.968	1.00	37.48
ATOM	6086	O	LYS	913	-28.156	-22.656	4.203	1.00	37.96
ATOM	6087	N	GLN	914	-26.891	-21.346	2.883	1.00	40.52
ATOM	6088	CA	GLN	914	-27.931	-21.161	1.880	1.00	43.74
ATOM	6089	CB	GLN	914	-27.498	-20.122	0.845	1.00	45.66
ATOM	6090	CG	GLN	914	-27.215	-18.745	1.427	1.00	48.82
ATOM	6091	CD	GLN	914	-26.988	-17.695	0.355	1.00	51.41
ATOM	6092	OE1	GLN	914	-27.882	-17.405	-0.442	1.00	53.67
ATOM	6093	NE2	GLN	914	-25.788	-17.122	0.327	1.00	52.30
ATOM	6094	C	GLN	914	-28.227	-22.481	1.183	1.00	44.63
ATOM	6095	O	GLN	914	-29.357	-22.735	0.768	1.00	44.57
ATOM	6096	N	GLU	915	-27.198	-23.314	1.058	1.00	45.74
ATOM	6097	CA	GLU	915	-27.327	-24.617	0.418	1.00	46.23
ATOM	6098	CB	GLU	915	-26.026	-24.988	-0.298	1.00	47.95
ATOM	6099	CG	GLU	915	-25.516	-23.913	-1.243	1.00	51.08
ATOM	6100	CD	GLU	915	-24.213	-24.299	-1.917	1.00	52.26
ATOM	6101	OE1	GLU	915	-23.270	-24.711	-1.205	1.00	53.21
ATOM	6102	OE2	GLU	915	-24.127	-24.181	-3.157	1.00	53.18
ATOM	6103	C	GLU	915	-27.654	-25.675	1.463	1.00	45.27
ATOM	6104	O	GLU	915	-27.700	-26.867	1.160	1.00	45.43
ATOM	6105	N	LYS	916	-27.874	-25.233	2.697	1.00	44.09
ATOM	6106	CA	LYS	916	-28.206	-26.138	3.792	1.00	43.28
ATOM	6107	CB	LYS	916	-29.587	-26.754	3.558	1.00	45.07
ATOM	6108	CG	LYS	916	-30.712	-25.741	3.545	1.00	46.88
ATOM	6109	CD	LYS	916	-30.921	-25.137	4.921	1.00	48.53
ATOM	6110	CE	LYS	916	-31.908	-23.981	4.871	1.00	50.30
ATOM	6111	NZ	LYS	916	-33.206	-24.382	4.267	1.00	51.08



ATOM	6112	C	LYS	916	-27.177	-27.249	3.976	1.00	42.34
ATOM	6113	O	LYS	916	-27.519	-28.359	4.382	1.00	42.68
ATOM	6114	N	LYS	917	-25.918	-26.949	3.673	1.00	40.67
ATOM	6115	CA	LYS	917	-24.849	-27.928	3.823	1.00	38.46
ATOM	6116	CB	LYS	917	-23.865	-27.841	2.654	1.00	39.13
ATOM	6117	CG	LYS	917	-22.696	-28.814	2.781	1.00	41.58
ATOM	6118	CD	LYS	917	-21.540	-28.465	1.851	1.00	44.05
ATOM	6119	CE	LYS	917	-21.903	-28.642	0.387	1.00	46.51
ATOM	6120	NZ	LYS	917	-20.749	-28.300	-0.494	1.00	48.27
ATOM	6121	C	LYS	917	-24.095	-27.675	5.123	1.00	36.66
ATOM	6122	O	LYS	917	-23.297	-26.741	5.211	1.00	35.67
ATOM	6123	N	ARG	918	-24.355	-28.504	6.129	1.00	33.82
ATOM	6124	CA	ARG	918	-23.689	-28.373	7.420	1.00	31.81
ATOM	6125	CB	ARG	918	-24.297	-29.362	8.426	1.00	30.96
ATOM	6126	CG	ARG	918	-25.668	-28.926	8.931	1.00	32.18
ATOM	6127	CD	ARG	918	-26.346	-29.957	9.826	1.00	33.25
ATOM	6128	NE	ARG	918	-26.812	-31.128	9.084	1.00	33.83
ATOM	6129	CZ	ARG	918	-27.706	-32.000	9.544	1.00	33.54
ATOM	6130	NH1	ARG	918	-28.240	-31.840	10.747	1.00	33.73
ATOM	6131	NH2	ARG	918	-28.071	-33.036	8.801	1.00	35.50
ATOM	6132	C	ARG	918	-22.192	-28.624	7.242	1.00	29.61
ATOM	6133	O	ARG	918	-21.792	-29.565	6.557	1.00	29.96
ATOM	6134	N	PHE	919	-21.368	-27.778	7.857	1.00	26.58
ATOM	6135	CA	PHE	919	-19.911	-27.890	7.738	1.00	24.02
ATOM	6136	CB	PHE	919	-19.368	-26.625	7.062	1.00	24.17
ATOM	6137	CG	PHE	919	-19.743	-25.350	7.771	1.00	23.99
ATOM	6138	CD1	PHE	919	-18.925	-24.820	8.769	1.00	22.22
ATOM	6139	CD2	PHE	919	-20.932	-24.691	7.459	1.00	23.20
ATOM	6140	CE1	PHE	919	-19.286	-23.657	9.440	1.00	22.28
ATOM	6141	CE2	PHE	919	-21.299	-23.528	8.127	1.00	23.01
ATOM	6142	CZ	PHE	919	-20.475	-23.009	9.120	1.00	23.76
ATOM	6143	C	PHE	919	-19.206	-28.097	9.076	1.00	23.65
ATOM	6144	O	PHE	919	-19.679	-27.636	10.119	1.00	22.72
ATOM	6145	N	ALA	920	-18.071	-28.789	9.049	1.00	21.57
ATOM	6146	CA	ALA	920	-17.313	-29.028	10.276	1.00	19.22
ATOM	6147	CB	ALA	920	-16.709	-30.436	10.260	1.00	18.52
ATOM	6148	C	ALA	920	-16.213	-27.988	10.445	1.00	17.19
ATOM	6149	O	ALA	920	-15.645	-27.506	9.463	1.00	17.07
ATOM	6150	N	THR	921	-15.932	-27.644	11.701	1.00	17.33
ATOM	6151	CA	THR	921	-14.904	-26.662	12.071	1.00	17.47
ATOM	6152	CB	THR	921	-15.550	-25.358	12.581	1.00	20.30
ATOM	6153	OG1	THR	921	-16.349	-24.781	11.533	1.00	24.13
ATOM	6154	CG2	THR	921	-14.492	-24.372	12.999	1.00	27.64
ATOM	6155	C	THR	921	-14.091	-27.293	13.205	1.00	14.38
ATOM	6156	O	THR	921	-14.586	-28.182	13.892	1.00	13.90
ATOM	6157	N	ILE	922	-12.861	-26.843	13.424	1.00	13.81
ATOM	6158	CA	ILE	922	-12.054	-27.454	14.481	1.00	13.12
ATOM	6159	CB	ILE	922	-11.367	-28.728	13.943	1.00	15.52
ATOM	6160	CG2	ILE	922	-10.274	-28.341	12.925	1.00	15.80
ATOM	6161	CG1	ILE	922	-10.771	-29.531	15.102	1.00	15.54
ATOM	6162	CD1	ILE	922	-10.400	-30.953	14.734	1.00	25.56
ATOM	6163	C	ILE	922	-10.988	-26.514	15.040	1.00	13.33
ATOM	6164	O	ILE	922	-10.591	-25.555	14.375	1.00	13.71
ATOM	6165	N	THR	923	-10.533	-26.778	16.262	1.00	13.37
ATOM	6166	CA	THR	923	-9.475	-25.955	16.844	1.00	11.94
ATOM	6167	CB	THR	923	-9.471	-25.979	18.403	1.00	11.46
ATOM	6168	OG1	THR	923	-9.137	-27.294	18.866	1.00	14.02
ATOM	6169	CG2	THR	923	-10.842	-25.564	18.962	1.00	12.48
ATOM	6170	C	THR	923	-8.130	-26.494	16.358	1.00	11.04
ATOM	6171	O	THR	923	-8.010	-27.662	15.998	1.00	11.93
ATOM	6172	N	ALA	924	-7.133	-25.616	16.324	1.00	10.01
ATOM	6173	CA	ALA	924	-5.783	-25.965	15.908	1.00	9.37
ATOM	6174	CB	ALA	924	-5.634	-25.881	14.390	1.00	10.66
ATOM	6175	C	ALA	924	-4.876	-24.948	16.574	1.00	9.13
ATOM	6176	O	ALA	924	-5.262	-23.791	16.738	1.00	9.96
ATOM	6177	N	TYR	925	-3.674	-25.367	16.955	1.00	8.67
ATOM	6178	CA	TYR	925	-2.757	-24.463	17.638	1.00	10.02
ATOM	6179	CB	TYR	925	-2.809	-24.709	19.143	1.00	9.74
ATOM	6180	CG	TYR	925	-4.188	-25.007	19.687	1.00	10.81
ATOM	6181	CD1	TYR	925	-4.619	-26.328	19.842	1.00	11.73
ATOM	6182	CE1	TYR	925	-5.871	-26.625	20.373	1.00	12.92
ATOM	6183	CD2	TYR	925	-5.051	-23.982	20.069	1.00	11.21
ATOM	6184	CE2	TYR	925	-6.315	-24.269	20.603	1.00	10.91
ATOM	6185	CZ	TYR	925	-6.711	-25.592	20.752	1.00	12.01
ATOM	6186	OH	TYR	925	-7.945	-25.890	21.293	1.00	13.23
ATOM	6187	C	TYR	925	-1.326	-24.619	17.174	1.00	9.34
ATOM	6188	O	TYR	925	-0.420	-24.017	17.744	1.00	10.90

ATOM	6189	N	ASP	926	-1.106	-25.447	16.161	1.00	8.96
ATOM	6190	CA	ASP	926	0.250	-25.626	15.672	1.00	10.92
ATOM	6191	CB	ASP	926	0.971	-26.694	16.509	1.00	11.44
ATOM	6192	CG	ASP	926	0.378	-28.093	16.328	1.00	11.32
ATOM	6193	OD1	ASP	926	0.546	-28.668	15.247	1.00	11.50
ATOM	6194	OD2	ASP	926	-0.257	-28.601	17.274	1.00	15.55
ATOM	6195	C	ASP	926	0.283	-25.982	14.186	1.00	11.52
ATOM	6196	O	ASP	926	-0.748	-26.292	13.581	1.00	13.19
ATOM	6197	N	TYR	927	1.477	-25.929	13.610	1.00	9.04
ATOM	6198	CA	TYR	927	1.693	-26.206	12.190	1.00	9.91
ATOM	6199	CB	TYR	927	3.183	-26.037	11.848	1.00	12.47
ATOM	6200	CG	TYR	927	3.599	-26.566	10.486	1.00	13.30
ATOM	6201	CD1	TYR	927	3.408	-25.805	9.332	1.00	15.77
ATOM	6202	CE1	TYR	927	3.776	-26.286	8.072	1.00	17.93
ATOM	6203	CD2	TYR	927	4.175	-27.831	10.351	1.00	14.44
ATOM	6204	CE2	TYR	927	4.548	-28.327	9.092	1.00	15.72
ATOM	6205	CZ	TYR	927	4.345	-27.552	7.961	1.00	18.75
ATOM	6206	OH	TYR	927	4.694	-28.034	6.708	1.00	20.14
ATOM	6207	C	TYR	927	1.256	-27.588	11.745	1.00	12.26
ATOM	6208	O	TYR	927	0.494	-27.732	10.791	1.00	12.34
ATOM	6209	N	SER	928	1.753	-28.602	12.446	1.00	11.45
ATOM	6210	CA	SER	928	1.468	-29.987	12.097	1.00	11.62
ATOM	6211	CB	SER	928	2.167	-30.928	13.077	1.00	12.06
ATOM	6212	OG	SER	928	3.577	-30.869	12.883	1.00	14.47
ATOM	6213	C	SER	928	0.002	-30.361	11.990	1.00	11.37
ATOM	6214	O	SER	928	-0.416	-30.992	11.008	1.00	11.30
ATOM	6215	N	PHE	929	-0.786	-30.004	12.997	1.00	10.21
ATOM	6216	CA	PHE	929	-2.202	-30.337	12.932	1.00	9.78
ATOM	6217	CB	PHE	929	-2.852	-30.267	14.319	1.00	11.80
ATOM	6218	CG	PHE	929	-2.628	-31.504	15.132	1.00	10.16
ATOM	6219	CD1	PHE	929	-1.601	-31.570	16.063	1.00	9.07
ATOM	6220	CD2	PHE	929	-3.383	-32.645	14.879	1.00	13.10
ATOM	6221	CE1	PHE	929	-1.325	-32.766	16.737	1.00	11.64
ATOM	6222	CE2	PHE	929	-3.122	-33.838	15.539	1.00	10.99
ATOM	6223	CZ	PHE	929	-2.092	-33.903	16.465	1.00	10.50
ATOM	6224	C	PHE	929	-2.956	-29.479	11.935	1.00	10.59
ATOM	6225	O	PHE	929	-3.871	-29.970	11.280	1.00	10.20
ATOM	6226	N	ALA	930	-2.579	-28.210	11.798	1.00	10.29
ATOM	6227	CA	ALA	930	-3.263	-27.341	10.835	1.00	10.49
ATOM	6228	CB	ALA	930	-2.724	-25.899	10.940	1.00	10.94
ATOM	6229	C	ALA	930	-3.028	-27.891	9.427	1.00	11.83
ATOM	6230	O	ALA	930	-3.920	-27.870	8.572	1.00	12.93
ATOM	6231	N	LYS	931	-1.807	-28.361	9.192	1.00	11.22
ATOM	6232	CA	LYS	931	-1.425	-28.924	7.894	1.00	12.92
ATOM	6233	CB	LYS	931	0.078	-29.232	7.897	1.00	13.90
ATOM	6234	CG	LYS	931	0.628	-29.953	6.669	1.00	19.23
ATOM	6235	CD	LYS	931	0.716	-29.053	5.467	1.00	22.53
ATOM	6236	CE	LYS	931	1.677	-29.628	4.415	1.00	26.66
ATOM	6237	NZ	LYS	931	1.255	-30.976	3.915	1.00	26.76
ATOM	6238	C	LYS	931	-2.227	-30.198	7.646	1.00	12.48
ATOM	6239	O	LYS	931	-2.737	-30.428	6.543	1.00	14.08
ATOM	6240	N	LEU	932	-2.326	-31.029	8.672	1.00	11.21
ATOM	6241	CA	LEU	932	-3.071	-32.273	8.557	1.00	11.84
ATOM	6242	CB	LEU	932	-2.965	-33.060	9.865	1.00	11.17
ATOM	6243	CG	LEU	932	-3.550	-34.485	9.854	1.00	11.63
ATOM	6244	CD1	LEU	932	-2.882	-35.309	10.946	1.00	10.37
ATOM	6245	CD2	LEU	932	-5.051	-34.430	10.059	1.00	12.21
ATOM	6246	C	LEU	932	-4.534	-31.991	8.212	1.00	12.85
ATOM	6247	O	LEU	932	-5.102	-32.611	7.309	1.00	14.20
ATOM	6248	N	PHE	933	-5.140	-31.039	8.913	1.00	12.43
ATOM	6249	CA	PHE	933	-6.538	-30.699	8.663	1.00	12.70
ATOM	6250	CB	PHE	933	-7.036	-29.670	9.691	1.00	12.30
ATOM	6251	CG	PHE	933	-6.939	-30.139	11.120	1.00	10.75
ATOM	6252	CD1	PHE	933	-7.001	-31.493	11.430	1.00	11.83
ATOM	6253	CD2	PHE	933	-6.788	-29.224	12.162	1.00	11.03
ATOM	6254	CE1	PHE	933	-6.911	-31.931	12.744	1.00	11.61
ATOM	6255	CE2	PHE	933	-6.699	-29.662	13.482	1.00	11.00
ATOM	6256	CZ	PHE	933	-6.758	-31.014	13.774	1.00	12.40
ATOM	6257	C	PHE	933	-6.786	-30.174	7.247	1.00	14.52
ATOM	6258	O	PHE	933	-7.675	-30.661	6.551	1.00	14.70
ATOM	6259	N	ALA	934	-6.010	-29.181	6.822	1.00	14.17
ATOM	6260	CA	ALA	934	-6.178	-28.607	5.488	1.00	16.25
ATOM	6261	CB	ALA	934	-5.177	-27.499	5.266	1.00	15.86
ATOM	6262	C	ALA	934	-6.029	-29.661	4.397	1.00	18.38
ATOM	6263	O	ALA	934	-6.742	-29.631	3.399	1.00	19.61
ATOM	6264	N	ASP	935	-5.094	-30.585	4.586	1.00	18.37
ATOM	6265	CA	ASP	935	-4.873	-31.632	3.605	1.00	20.68

ATOM	6266	CB	ASP	935	-3.611	-32.422	3.938	1.00	22.05
ATOM	6267	CG	ASP	935	-2.341	-31.618	3.716	1.00	24.26
ATOM	6268	OD1	ASP	935	-2.426	-30.459	3.253	1.00	28.99
ATOM	6269	OD2	ASP	935	-1.256	-32.155	4.001	1.00	24.81
ATOM	6270	C	ASP	935	-6.050	-32.588	3.492	1.00	21.54
ATOM	6271	O	ASP	935	-6.152	-33.332	2.518	1.00	21.57
ATOM	6272	N	GLU	936	-6.937	-32.570	4.481	1.00	21.31
ATOM	6273	CA	GLU	936	-8.107	-33.449	4.466	1.00	23.46
ATOM	6274	CB	GLU	936	-8.300	-34.119	5.830	1.00	22.13
ATOM	6275	CG	GLU	936	-7.196	-35.073	6.234	1.00	25.30
ATOM	6276	CD	GLU	936	-6.944	-36.134	5.184	1.00	26.05
ATOM	6277	OE1	GLU	936	-7.932	-36.697	4.664	1.00	27.53
ATOM	6278	OE2	GLU	936	-5.768	-36.408	4.890	1.00	25.51
ATOM	6279	C	GLU	936	-9.395	-32.727	4.090	1.00	23.90
ATOM	6280	O	GLU	936	-10.433	-33.367	3.928	1.00	23.71
ATOM	6281	N	GLY	937	-9.335	-31.404	3.966	1.00	24.48
ATOM	6282	CA	GLY	937	-10.527	-30.654	3.603	1.00	24.58
ATOM	6283	C	GLY	937	-11.155	-29.831	4.714	1.00	24.70
ATOM	6284	O	GLY	937	-12.136	-29.116	4.481	1.00	22.63
ATOM	6285	N	LEU	938	-10.614	-29.942	5.925	1.00	21.96
ATOM	6286	CA	LEU	938	-11.115	-29.177	7.071	1.00	22.24
ATOM	6287	CB	LEU	938	-10.749	-29.878	8.389	1.00	22.44
ATOM	6288	CG	LEU	938	-11.881	-30.305	9.325	1.00	24.89
ATOM	6289	CD1	LEU	938	-11.300	-30.960	10.565	1.00	20.46
ATOM	6290	CD2	LEU	938	-12.736	-29.116	9.706	1.00	23.65
ATOM	6291	C	LEU	938	-10.397	-27.839	6.979	1.00	22.22
ATOM	6292	O	LEU	938	-9.275	-27.702	7.472	1.00	21.13
ATOM	6293	N	ASN	939	-11.052	-26.860	6.354	1.00	19.30
ATOM	6294	CA	ASN	939	-10.447	-25.546	6.136	1.00	20.12
ATOM	6295	CB	ASN	939	-10.577	-25.159	4.657	1.00	21.00
ATOM	6296	CG	ASN	939	-10.119	-26.267	3.720	1.00	24.01
ATOM	6297	OD1	ASN	939	-9.005	-26.783	3.846	1.00	24.14
ATOM	6298	ND2	ASN	939	-10.974	-26.632	2.768	1.00	24.93
ATOM	6299	C	ASN	939	-10.959	-24.393	7.000	1.00	17.21
ATOM	6300	O	ASN	939	-10.813	-23.234	6.631	1.00	17.54
ATOM	6301	N	VAL	940	-11.564	-24.705	8.139	1.00	15.30
ATOM	6302	CA	VAL	940	-12.038	-23.664	9.048	1.00	12.98
ATOM	6303	CB	VAL	940	-13.566	-23.629	9.156	1.00	13.67
ATOM	6304	CG1	VAL	940	-13.986	-22.479	10.070	1.00	14.67
ATOM	6305	CG2	VAL	940	-14.186	-23.453	7.778	1.00	15.61
ATOM	6306	C	VAL	940	-11.459	-24.001	10.409	1.00	12.24
ATOM	6307	O	VAL	940	-11.854	-24.987	11.032	1.00	11.95
ATOM	6308	N	MET	941	-10.525	-23.182	10.877	1.00	11.66
ATOM	6309	CA	MET	941	-9.887	-23.474	12.145	1.00	11.33
ATOM	6310	CB	MET	941	-8.453	-23.897	11.884	1.00	11.01
ATOM	6311	CG	MET	941	-8.355	-25.076	10.935	1.00	15.14
ATOM	6312	SD	MET	941	-6.605	-25.492	10.723	1.00	13.23
ATOM	6313	CE	MET	941	-6.628	-25.995	9.032	1.00	16.00
ATOM	6314	C	MET	941	-9.935	-22.338	13.136	1.00	11.83
ATOM	6315	O	MET	941	-9.909	-21.166	12.771	1.00	12.66
ATOM	6316	N	LEU	942	-10.020	-22.710	14.404	1.00	10.99
ATOM	6317	CA	LEU	942	-10.094	-21.738	15.469	1.00	12.19
ATOM	6318	CB	LEU	942	-11.409	-21.938	16.240	1.00	15.75
ATOM	6319	CG	LEU	942	-11.850	-21.101	17.453	1.00	20.87
ATOM	6320	CD1	LEU	942	-11.333	-21.740	18.697	1.00	25.90
ATOM	6321	CD2	LEU	942	-11.405	-19.631	17.337	1.00	18.03
ATOM	6322	C	LEU	942	-8.903	-21.821	16.416	1.00	12.22
ATOM	6323	O	LEU	942	-8.639	-22.864	17.009	1.00	11.14
ATOM	6324	N	VAL	943	-8.160	-20.728	16.528	1.00	11.13
ATOM	6325	CA	VAL	943	-7.048	-20.703	17.464	1.00	10.52
ATOM	6326	CB	VAL	943	-5.889	-19.821	16.965	1.00	10.69
ATOM	6327	CG1	VAL	943	-4.792	-19.752	18.031	1.00	11.40
ATOM	6328	CG2	VAL	943	-5.311	-20.422	15.685	1.00	13.59
ATOM	6329	C	VAL	943	-7.721	-20.095	18.690	1.00	11.08
ATOM	6330	O	VAL	943	-7.761	-18.874	18.863	1.00	11.38
ATOM	6331	N	GLY	944	-8.271	-20.965	19.529	1.00	13.26
ATOM	6332	CA	GLY	944	-8.984	-20.502	20.701	1.00	12.63
ATOM	6333	C	GLY	944	-8.220	-20.504	22.000	1.00	11.45
ATOM	6334	O	GLY	944	-7.168	-21.149	22.120	1.00	11.27
ATOM	6335	N	ASP	945	-8.758	-19.791	22.986	1.00	10.87
ATOM	6336	CA	ASP	945	-8.094	-19.714	24.277	1.00	11.19
ATOM	6337	CB	ASP	945	-8.602	-18.519	25.103	1.00	12.84
ATOM	6338	CG	ASP	945	-10.096	-18.559	25.382	1.00	15.40
ATOM	6339	OD1	ASP	945	-10.741	-19.580	25.119	1.00	14.02
ATOM	6340	OD2	ASP	945	-10.612	-17.544	25.888	1.00	16.56
ATOM	6341	C	ASP	945	-8.216	-21.021	25.034	1.00	10.85
ATOM	6342	O	ASP	945	-7.752	-21.137	26.160	1.00	11.48

ATOM	6343	N	SER	946	-8.829	-22.019	24.392	1.00	10.80
ATOM	6344	CA	SER	946	-8.929	-23.346	25.000	1.00	11.18
ATOM	6345	CB	SER	946	-9.751	-24.282	24.109	1.00	13.04
ATOM	6346	OG	SER	946	-9.361	-24.167	22.750	1.00	13.51
ATOM	6347	C	SER	946	-7.483	-23.841	25.098	1.00	12.33
ATOM	6348	O	SER	946	-7.162	-24.746	25.878	1.00	12.87
ATOM	6349	N	LEU	947	-6.608	-23.241	24.292	1.00	9.71
ATOM	6350	CA	LEU	947	-5.189	-23.620	24.319	1.00	10.28
ATOM	6351	CB	LEU	947	-4.386	-22.834	23.260	1.00	9.98
ATOM	6352	CG	LEU	947	-4.241	-21.308	23.369	1.00	10.69
ATOM	6353	CD1	LEU	947	-3.110	-20.959	24.301	1.00	10.73
ATOM	6354	CD2	LEU	947	-3.955	-20.712	21.980	1.00	11.38
ATOM	6355	C	LEU	947	-4.607	-23.391	25.717	1.00	9.28
ATOM	6356	O	LEU	947	-3.627	-24.038	26.114	1.00	10.82
ATOM	6357	N	GLY	948	-5.214	-22.474	26.468	1.00	9.77
ATOM	6358	CA	GLY	948	-4.743	-22.208	27.819	1.00	9.51
ATOM	6359	C	GLY	948	-4.768	-23.482	28.651	1.00	10.76
ATOM	6360	O	GLY	948	-3.966	-23.647	29.570	1.00	10.19
ATOM	6361	N	MET	949	-5.684	-24.389	28.325	1.00	10.94
ATOM	6362	CA	MET	949	-5.795	-25.637	29.063	1.00	12.90
ATOM	6363	CB	MET	949	-7.271	-25.952	29.349	1.00	12.40
ATOM	6364	CG	MET	949	-7.987	-24.849	30.130	1.00	15.92
ATOM	6365	SD	MET	949	-9.725	-25.184	30.491	1.00	22.24
ATOM	6366	CE	MET	949	-9.565	-26.325	31.869	1.00	23.74
ATOM	6367	C	MET	949	-5.153	-26.794	28.313	1.00	13.79
ATOM	6368	O	MET	949	-4.272	-27.473	28.840	1.00	13.01
ATOM	6369	N	THR	950	-5.577	-27.003	27.072	1.00	13.13
ATOM	6370	CA	THR	950	-5.061	-28.104	26.271	1.00	14.84
ATOM	6371	CB	THR	950	-5.885	-28.243	24.975	1.00	18.87
ATOM	6372	OG1	THR	950	-5.665	-29.536	24.407	1.00	27.10
ATOM	6373	CG2	THR	950	-5.492	-27.177	23.971	1.00	15.75
ATOM	6374	C	THR	950	-3.570	-28.027	25.922	1.00	14.92
ATOM	6375	O	THR	950	-2.887	-29.053	25.875	1.00	14.14
ATOM	6376	N	VAL	951	-3.064	-26.819	25.688	1.00	12.91
ATOM	6377	CA	VAL	951	-1.663	-26.639	25.330	1.00	12.41
ATOM	6378	CB	VAL	951	-1.532	-25.597	24.174	1.00	13.11
ATOM	6379	CG1	VAL	951	-0.074	-25.297	23.888	1.00	13.39
ATOM	6380	CG2	VAL	951	-2.217	-26.131	22.918	1.00	13.74
ATOM	6381	C	VAL	951	-0.769	-26.213	26.502	1.00	12.91
ATOM	6382	O	VAL	951	0.242	-26.855	26.782	1.00	13.09
ATOM	6383	N	GLN	952	-1.146	-25.138	27.190	1.00	10.78
ATOM	6384	CA	GLN	952	-0.354	-24.627	28.312	1.00	12.90
ATOM	6385	CB	GLN	952	-0.668	-23.149	28.540	1.00	9.47
ATOM	6386	CG	GLN	952	-0.456	-22.295	27.299	1.00	10.22
ATOM	6387	CD	GLN	952	-0.885	-20.862	27.509	1.00	10.55
ATOM	6388	OE1	GLN	952	-1.485	-20.527	28.523	1.00	11.30
ATOM	6389	NE2	GLN	952	-0.571	-20.006	26.547	1.00	6.63
ATOM	6390	C	GLN	952	-0.534	-25.385	29.628	1.00	12.56
ATOM	6391	O	GLN	952	0.327	-25.319	30.503	1.00	14.66
ATOM	6392	N	GLY	953	-1.667	-26.061	29.791	1.00	12.38
ATOM	6393	CA	GLY	953	-1.885	-26.821	31.009	1.00	12.40
ATOM	6394	C	GLY	953	-2.460	-26.083	32.206	1.00	12.68
ATOM	6395	O	GLY	953	-2.296	-26.531	33.344	1.00	13.99
ATOM	6396	N	HIS	954	-3.118	-24.953	31.971	1.00	12.29
ATOM	6397	CA	HIS	954	-3.727	-24.206	33.067	1.00	12.78
ATOM	6398	CB	HIS	954	-3.889	-22.731	32.700	1.00	11.26
ATOM	6399	CG	HIS	954	-2.589	-22.013	32.546	1.00	13.33
ATOM	6400	CD2	HIS	954	-2.013	-21.430	31.470	1.00	13.37
ATOM	6401	ND1	HIS	954	-1.706	-21.852	33.591	1.00	13.34
ATOM	6402	CE1	HIS	954	-0.640	-21.200	33.165	1.00	15.92
ATOM	6403	NE2	HIS	954	-0.801	-20.931	31.882	1.00	13.61
ATOM	6404	C	HIS	954	-5.083	-24.814	33.357	1.00	13.36
ATOM	6405	O	HIS	954	-5.605	-25.594	32.555	1.00	13.27
ATOM	6406	N	ASP	955	-5.644	-24.458	34.511	1.00	16.24
ATOM	6407	CA	ASP	955	-6.951	-24.963	34.944	1.00	18.66
ATOM	6408	CB	ASP	955	-7.060	-24.882	36.473	1.00	23.17
ATOM	6409	CG	ASP	955	-6.943	-23.457	36.998	1.00	27.78
ATOM	6410	OD1	ASP	955	-7.656	-22.566	36.495	1.00	31.02
ATOM	6411	OD2	ASP	955	-6.145	-23.231	37.932	1.00	32.90
ATOM	6412	C	ASP	955	-8.131	-24.221	34.315	1.00	17.97
ATOM	6413	O	ASP	955	-9.295	-24.605	34.493	1.00	16.08
ATOM	6414	N	SER	956	-7.825	-23.151	33.593	1.00	15.35
ATOM	6415	CA	SER	956	-8.845	-22.364	32.926	1.00	14.44
ATOM	6416	CB	SER	956	-9.444	-21.320	33.878	1.00	14.03
ATOM	6417	OG	SER	956	-8.533	-20.269	34.155	1.00	12.64
ATOM	6418	C	SER	956	-8.196	-21.676	31.732	1.00	13.94
ATOM	6419	O	SER	956	-6.994	-21.806	31.517	1.00	12.60

ATOM	6420	N	THR	957	-8.997	-20.955	30.953	1.00	12.70
ATOM	6421	CA	THR	957	-8.495	-20.259	29.774	1.00	11.18
ATOM	6422	CB	THR	957	-9.579	-20.165	28.690	1.00	10.23
ATOM	6423	OG1	THR	957	-10.710	-19.468	29.217	1.00	12.66
ATOM	6424	CG2	THR	957	-10.017	-21.566	28.231	1.00	13.69
ATOM	6425	C	THR	957	-8.047	-18.834	30.114	1.00	10.60
ATOM	6426	O	THR	957	-7.415	-18.164	29.295	1.00	9.48
ATOM	6427	N	LEU	958	-8.373	-18.371	31.318	1.00	11.09
ATOM	6428	CA	LEU	958	-8.042	-16.999	31.718	1.00	10.38
ATOM	6429	CB	LEU	958	-8.483	-16.756	33.167	1.00	11.85
ATOM	6430	CG	LEU	958	-9.962	-16.399	33.380	1.00	14.28
ATOM	6431	CD1	LEU	958	-10.854	-17.587	33.066	1.00	13.28
ATOM	6432	CD2	LEU	958	-10.159	-15.961	34.824	1.00	16.63
ATOM	6433	C	LEU	958	-6.589	-16.545	31.525	1.00	10.13
ATOM	6434	O	LEU	958	-6.336	-15.413	31.106	1.00	10.74
ATOM	6435	N	PRO	959	-5.611	-17.417	31.819	1.00	11.82
ATOM	6436	CD	PRO	959	-5.694	-18.691	32.549	1.00	12.19
ATOM	6437	CA	PRO	959	-4.211	-17.015	31.645	1.00	10.66
ATOM	6438	CB	PRO	959	-3.437	-18.170	32.284	1.00	13.42
ATOM	6439	CG	PRO	959	-4.389	-19.328	32.170	1.00	19.51
ATOM	6440	C	PRO	959	-3.722	-16.711	30.225	1.00	10.61
ATOM	6441	O	PRO	959	-2.674	-16.086	30.054	1.00	9.35
ATOM	6442	N	VAL	960	-4.470	-17.139	29.214	1.00	10.44
ATOM	6443	CA	VAL	960	-4.071	-16.924	27.821	1.00	9.62
ATOM	6444	CB	VAL	960	-5.046	-17.647	26.858	1.00	10.31
ATOM	6445	CG1	VAL	960	-4.578	-17.492	25.408	1.00	9.19
ATOM	6446	CG2	VAL	960	-5.119	-19.116	27.212	1.00	10.51
ATOM	6447	C	VAL	960	-4.017	-15.455	27.455	1.00	11.03
ATOM	6448	O	VAL	960	-4.992	-14.723	27.639	1.00	9.26
ATOM	6449	N	THR	961	-2.890	-15.012	26.917	1.00	11.69
ATOM	6450	CA	THR	961	-2.800	-13.610	26.553	1.00	12.59
ATOM	6451	CB	THR	961	-1.512	-12.975	27.142	1.00	16.60
ATOM	6452	OG1	THR	961	-1.351	-13.392	28.510	1.00	22.57
ATOM	6453	CG2	THR	961	-1.587	-11.461	27.095	1.00	22.84
ATOM	6454	C	THR	961	-2.854	-13.423	25.040	1.00	11.62
ATOM	6455	O	THR	961	-2.785	-14.393	24.272	1.00	8.55
ATOM	6456	N	VAL	962	-2.989	-12.171	24.613	1.00	8.97
ATOM	6457	CA	VAL	962	-3.059	-11.870	23.189	1.00	9.43
ATOM	6458	CB	VAL	962	-3.205	-10.344	22.954	1.00	12.17
ATOM	6459	CG1	VAL	962	-3.243	-10.044	21.457	1.00	9.65
ATOM	6460	CG2	VAL	962	-4.464	-9.842	23.640	1.00	15.11
ATOM	6461	C	VAL	962	-1.813	-12.390	22.486	1.00	10.49
ATOM	6462	O	VAL	962	-1.902	-13.023	21.434	1.00	10.98
ATOM	6463	N	ALA	963	-0.650	-12.142	23.080	1.00	9.85
ATOM	6464	CA	ALA	963	0.602	-12.604	22.489	1.00	10.83
ATOM	6465	CB	ALA	963	1.770	-12.235	23.397	1.00	10.40
ATOM	6466	C	ALA	963	0.564	-14.120	22.258	1.00	10.40
ATOM	6467	O	ALA	963	1.075	-14.593	21.256	1.00	10.00
ATOM	6468	N	ASP	964	-0.031	-14.866	23.195	1.00	12.44
ATOM	6469	CA	ASP	964	-0.144	-16.326	23.067	1.00	11.54
ATOM	6470	CB	ASP	964	-0.818	-16.961	24.289	1.00	11.14
ATOM	6471	CG	ASP	964	-0.006	-16.816	25.572	1.00	13.23
ATOM	6472	OD1	ASP	964	1.239	-16.781	25.528	1.00	11.81
ATOM	6473	OD2	ASP	964	-0.627	-16.761	26.648	1.00	12.48
ATOM	6474	C	ASP	964	-0.966	-16.692	21.833	1.00	11.21
ATOM	6475	O	ASP	964	-0.583	-17.561	21.048	1.00	6.94
ATOM	6476	N	ILE	965	-2.113	-16.037	21.680	1.00	8.84
ATOM	6477	CA	ILE	965	-2.978	-16.292	20.539	1.00	9.08
ATOM	6478	CB	ILE	965	-4.279	-15.435	20.593	1.00	9.58
ATOM	6479	CG2	ILE	965	-5.067	-15.617	19.298	1.00	7.50
ATOM	6480	CG1	ILE	965	-5.125	-15.814	21.813	1.00	8.04
ATOM	6481	CD1	ILE	965	-5.829	-17.185	21.739	1.00	9.87
ATOM	6482	C	ILE	965	-2.237	-15.970	19.244	1.00	9.13
ATOM	6483	O	ILE	965	-2.305	-16.725	18.267	1.00	8.12
ATOM	6484	N	ALA	966	-1.519	-14.851	19.231	1.00	9.33
ATOM	6485	CA	ALA	966	-0.772	-14.453	18.026	1.00	7.88
ATOM	6486	CB	ALA	966	-0.161	-13.046	18.215	1.00	10.51
ATOM	6487	C	ALA	966	0.325	-15.459	17.665	1.00	6.25
ATOM	6488	O	ALA	966	0.623	-15.694	16.484	1.00	8.05
ATOM	6489	N	TYR	967	0.954	-16.023	18.690	1.00	7.24
ATOM	6490	CA	TYR	967	2.007	-17.022	18.487	1.00	7.41
ATOM	6491	CB	TYR	967	2.602	-17.433	19.847	1.00	8.25
ATOM	6492	CG	TYR	967	3.602	-18.579	19.775	1.00	9.15
ATOM	6493	CD1	TYR	967	4.858	-18.406	19.191	1.00	10.05
ATOM	6494	CE1	TYR	967	5.787	-19.444	19.151	1.00	12.77
ATOM	6495	CD2	TYR	967	3.296	-19.826	20.314	1.00	9.48
ATOM	6496	CE2	TYR	967	4.217	-20.876	20.278	1.00	13.60

ATOM	6497	CZ	TYR	967	5.462	-20.673	19.695	1.00	13.29
ATOM	6498	OH	TYR	967	6.394	-21.697	19.655	1.00	13.05
ATOM	6499	C	TYR	967	1.454	-18.266	17.772	1.00	6.51
ATOM	6500	O	TYR	967	2.013	-18.745	16.776	1.00	5.94
ATOM	6501	N	HIS	968	0.347	-18.783	18.296	1.00	9.58
ATOM	6502	CA	HIS	968	-0.276	-19.994	17.741	1.00	9.37
ATOM	6503	CB	HIS	968	-1.238	-20.593	18.784	1.00	8.45
ATOM	6504	CG	HIS	968	-0.533	-21.162	19.988	1.00	9.03
ATOM	6505	CD2	HIS	968	-0.357	-20.670	21.241	1.00	8.58
ATOM	6506	ND1	HIS	968	0.147	-22.360	19.954	1.00	8.08
ATOM	6507	CE1	HIS	968	0.714	-22.582	21.129	1.00	9.22
ATOM	6508	NE2	HIS	968	0.424	-21.573	21.929	1.00	7.98
ATOM	6509	C	HIS	968	-0.979	-19.714	16.408	1.00	10.86
ATOM	6510	O	HIS	968	-1.057	-20.590	15.536	1.00	9.61
ATOM	6511	N	THR	969	-1.468	-18.486	16.237	1.00	10.09
ATOM	6512	CA	THR	969	-2.135	-18.099	15.001	1.00	8.73
ATOM	6513	CB	THR	969	-2.773	-16.698	15.148	1.00	11.74
ATOM	6514	OG1	THR	969	-3.878	-16.774	16.066	1.00	12.00
ATOM	6515	CG2	THR	969	-3.276	-16.182	13.791	1.00	10.32
ATOM	6516	C	THR	969	-1.160	-18.118	13.822	1.00	10.38
ATOM	6517	O	THR	969	-1.506	-18.557	12.719	1.00	10.24
ATOM	6518	N	ALA	970	0.064	-17.653	14.056	1.00	8.37
ATOM	6519	CA	ALA	970	1.076	-17.624	13.001	1.00	9.33
ATOM	6520	CB	ALA	970	2.285	-16.817	13.467	1.00	7.66
ATOM	6521	C	ALA	970	1.497	-19.046	12.608	1.00	10.42
ATOM	6522	O	ALA	970	1.805	-19.311	11.445	1.00	10.11
ATOM	6523	N	ALA	971	1.497	-19.950	13.583	1.00	7.79
ATOM	6524	CA	ALA	971	1.876	-21.345	13.352	1.00	8.64
ATOM	6525	CB	ALA	971	2.043	-22.065	14.685	1.00	10.14
ATOM	6526	C	ALA	971	0.808	-22.037	12.520	1.00	7.88
ATOM	6527	O	ALA	971	1.112	-22.756	11.570	1.00	10.59
ATOM	6528	N	VAL	972	-0.447	-21.816	12.892	1.00	9.57
ATOM	6529	CA	VAL	972	-1.573	-22.417	12.187	1.00	8.65
ATOM	6530	CB	VAL	972	-2.901	-22.072	12.910	1.00	8.10
ATOM	6531	CG1	VAL	972	-4.098	-22.433	12.040	1.00	7.43
ATOM	6532	CG2	VAL	972	-2.978	-22.839	14.231	1.00	10.94
ATOM	6533	C	VAL	972	-1.604	-21.935	10.740	1.00	10.50
ATOM	6534	O	VAL	972	-1.813	-22.725	9.815	1.00	8.95
ATOM	6535	N	ARG	973	-1.362	-20.641	10.548	1.00	10.52
ATOM	6536	CA	ARG	973	-1.359	-20.052	9.206	1.00	12.00
ATOM	6537	CB	ARG	973	-1.179	-18.526	9.291	1.00	13.02
ATOM	6538	CG	ARG	973	-1.127	-17.808	7.926	1.00	14.67
ATOM	6539	CD	ARG	973	-2.343	-18.128	7.055	1.00	12.64
ATOM	6540	NE	ARG	973	-3.543	-17.405	7.457	1.00	14.38
ATOM	6541	CZ	ARG	973	-4.783	-17.779	7.149	1.00	11.66
ATOM	6542	NH1	ARG	973	-4.993	-18.879	6.440	1.00	15.11
ATOM	6543	NH2	ARG	973	-5.819	-17.045	7.533	1.00	13.03
ATOM	6544	C	ARG	973	-0.260	-20.666	8.349	1.00	11.81
ATOM	6545	O	ARG	973	-0.438	-20.851	7.139	1.00	13.18
ATOM	6546	N	ARG	974	0.880	-20.979	8.960	1.00	10.93
ATOM	6547	CA	ARG	974	1.971	-21.585	8.194	1.00	12.60
ATOM	6548	CB	ARG	974	3.251	-21.701	9.033	1.00	10.96
ATOM	6549	CG	ARG	974	3.826	-20.370	9.472	1.00	13.59
ATOM	6550	CD	ARG	974	5.282	-20.456	9.924	1.00	15.74
ATOM	6551	NE	ARG	974	5.711	-19.147	10.394	1.00	16.85
ATOM	6552	CZ	ARG	974	5.655	-18.750	11.659	1.00	18.61
ATOM	6553	NH1	ARG	974	5.210	-19.574	12.603	1.00	12.75
ATOM	6554	NH2	ARG	974	5.984	-17.502	11.972	1.00	19.12
ATOM	6555	C	ARG	974	1.562	-22.967	7.707	1.00	13.55
ATOM	6556	O	ARG	974	1.899	-23.372	6.592	1.00	14.37
ATOM	6557	N	GLY	975	0.834	-23.693	8.545	1.00	13.23
ATOM	6558	CA	GLY	975	0.400	-25.026	8.164	1.00	13.14
ATOM	6559	C	GLY	975	-0.792	-25.049	7.222	1.00	12.25
ATOM	6560	O	GLY	975	-0.957	-26.002	6.462	1.00	11.97
ATOM	6561	N	ALA	976	-1.617	-24.002	7.273	1.00	11.12
ATOM	6562	CA	ALA	976	-2.817	-23.896	6.441	1.00	11.30
ATOM	6563	CB	ALA	976	-4.050	-24.243	7.271	1.00	10.07
ATOM	6564	C	ALA	976	-2.962	-22.480	5.863	1.00	13.51
ATOM	6565	O	ALA	976	-3.834	-21.722	6.274	1.00	12.15
ATOM	6566	N	PRO	977	-2.118	-22.114	4.889	1.00	14.78
ATOM	6567	CD	PRO	977	-1.121	-22.953	4.206	1.00	17.34
ATOM	6568	CA	PRO	977	-2.179	-20.773	4.288	1.00	15.20
ATOM	6569	CB	PRO	977	-1.014	-20.783	3.304	1.00	15.29
ATOM	6570	CG	PRO	977	-0.939	-22.205	2.885	1.00	20.17
ATOM	6571	C	PRO	977	-3.490	-20.324	3.641	1.00	15.15
ATOM	6572	O	PRO	977	-3.727	-19.121	3.486	1.00	15.71
ATOM	6573	N	ASN	978	-4.348	-21.270	3.275	1.00	15.08

ATOM	6574	CA	ASN	978	-5.616	-20.924	2.631	1.00	16.97
ATOM	6575	CB	ASN	978	-5.770	-21.725	1.330	1.00	21.84
ATOM	6576	CG	ASN	978	-4.692	-21.397	0.315	1.00	24.37
ATOM	6577	OD1	ASN	978	-4.473	-20.232	-0.020	1.00	26.80
ATOM	6578	ND2	ASN	978	-4.018	-22.423	-0.185	1.00	28.38
ATOM	6579	C	ASN	978	-6.856	-21.137	3.497	1.00	15.81
ATOM	6580	O	ASN	978	-7.978	-20.909	3.046	1.00	16.34
ATOM	6581	N	CYS	979	-6.671	-21.541	4.745	1.00	15.45
ATOM	6582	CA	CYS	979	-7.828	-21.787	5.597	1.00	15.35
ATOM	6583	CB	CYS	979	-7.427	-22.656	6.803	1.00	15.73
ATOM	6584	SG	CYS	979	-6.617	-21.757	8.193	1.00	17.53
ATOM	6585	C	CYS	979	-8.469	-20.495	6.096	1.00	13.52
ATOM	6586	O	CYS	979	-7.869	-19.416	6.035	1.00	15.76
ATOM	6587	N	LEU	980	-9.709	-20.603	6.559	1.00	13.60
ATOM	6588	CA	LEU	980	-10.396	-19.458	7.148	1.00	11.99
ATOM	6589	CB	LEU	980	-11.914	-19.582	7.017	1.00	13.15
ATOM	6590	CG	LEU	980	-12.747	-18.553	7.795	1.00	13.09
ATOM	6591	CD1	LEU	980	-12.439	-17.144	7.313	1.00	17.24
ATOM	6592	CD2	LEU	980	-14.229	-18.871	7.628	1.00	13.80
ATOM	6593	C	LEU	980	-9.970	-19.627	8.604	1.00	11.62
ATOM	6594	O	LEU	980	-10.336	-20.601	9.262	1.00	11.81
ATOM	6595	N	LEU	981	-9.187	-18.677	9.099	1.00	12.13
ATOM	6596	CA	LEU	981	-8.647	-18.760	10.447	1.00	9.55
ATOM	6597	CB	LEU	981	-7.132	-18.495	10.387	1.00	10.99
ATOM	6598	CG	LEU	981	-6.195	-18.853	11.539	1.00	12.12
ATOM	6599	CD1	LEU	981	-4.741	-18.706	11.090	1.00	12.07
ATOM	6600	CD2	LEU	981	-6.472	-17.977	12.747	1.00	15.27
ATOM	6601	C	LEU	981	-9.301	-17.827	11.448	1.00	10.37
ATOM	6602	O	LEU	981	-9.197	-16.604	11.321	1.00	11.18
ATOM	6603	N	LEU	982	-9.984	-18.394	12.445	1.00	9.54
ATOM	6604	CA	LEU	982	-10.604	-17.564	13.485	1.00	10.87
ATOM	6605	CB	LEU	982	-11.948	-18.140	13.951	1.00	12.12
ATOM	6606	CG	LEU	982	-13.182	-17.868	13.095	1.00	13.63
ATOM	6607	CD1	LEU	982	-12.997	-18.480	11.715	1.00	13.85
ATOM	6608	CD2	LEU	982	-14.414	-18.442	13.792	1.00	14.38
ATOM	6609	C	LEU	982	-9.659	-17.532	14.675	1.00	12.49
ATOM	6610	O	LEU	982	-8.991	-18.521	14.951	1.00	12.63
ATOM	6611	N	ALA	983	-9.579	-16.400	15.364	1.00	11.23
ATOM	6612	CA	ALA	983	-8.715	-16.324	16.533	1.00	11.28
ATOM	6613	CB	ALA	983	-7.440	-15.542	16.217	1.00	9.62
ATOM	6614	C	ALA	983	-9.455	-15.676	17.682	1.00	9.95
ATOM	6615	O	ALA	983	-10.043	-14.601	17.537	1.00	11.64
ATOM	6616	N	ASP	984	-9.452	-16.347	18.829	1.00	10.15
ATOM	6617	CA	ASP	984	-10.116	-15.825	20.026	1.00	11.00
ATOM	6618	CB	ASP	984	-10.108	-16.871	21.148	1.00	14.08
ATOM	6619	CG	ASP	984	-11.332	-17.763	21.159	1.00	16.37
ATOM	6620	OD1	ASP	984	-12.305	-17.478	20.438	1.00	14.80
ATOM	6621	OD2	ASP	984	-11.304	-18.755	21.923	1.00	14.64
ATOM	6622	C	ASP	984	-9.390	-14.627	20.592	1.00	10.62
ATOM	6623	O	ASP	984	-8.161	-14.538	20.524	1.00	10.17
ATOM	6624	N	LEU	985	-10.151	-13.688	21.137	1.00	10.79
ATOM	6625	CA	LEU	985	-9.529	-12.587	21.864	1.00	11.87
ATOM	6626	CB	LEU	985	-10.323	-11.295	21.763	1.00	12.83
ATOM	6627	CG	LEU	985	-10.091	-10.510	20.479	1.00	14.09
ATOM	6628	CD1	LEU	985	-10.537	-9.065	20.695	1.00	16.64
ATOM	6629	CD2	LEU	985	-8.613	-10.542	20.102	1.00	17.01
ATOM	6630	C	LEU	985	-9.725	-13.204	23.247	1.00	11.19
ATOM	6631	O	LEU	985	-10.840	-13.590	23.606	1.00	12.15
ATOM	6632	N	PRO	986	-8.651	-13.315	24.034	1.00	10.32
ATOM	6633	CD	PRO	986	-7.280	-12.891	23.695	1.00	10.52
ATOM	6634	CA	PRO	986	-8.698	-13.906	25.372	1.00	11.35
ATOM	6635	CB	PRO	986	-7.238	-14.221	25.633	1.00	12.21
ATOM	6636	CG	PRO	986	-6.563	-13.023	25.015	1.00	12.75
ATOM	6637	C	PRO	986	-9.309	-13.046	26.482	1.00	10.95
ATOM	6638	O	PRO	986	-9.721	-11.914	26.255	1.00	10.33
ATOM	6639	N	PHE	987	-9.364	-13.614	27.684	1.00	9.49
ATOM	6640	CA	PHE	987	-9.913	-12.938	28.856	1.00	10.31
ATOM	6641	CB	PHE	987	-9.524	-13.722	30.118	1.00	10.30
ATOM	6642	CG	PHE	987	-9.770	-12.984	31.418	1.00	11.95
ATOM	6643	CD1	PHE	987	-11.054	-12.630	31.821	1.00	12.08
ATOM	6644	CD2	PHE	987	-8.705	-12.697	32.265	1.00	11.62
ATOM	6645	CE1	PHE	987	-11.272	-11.999	33.054	1.00	13.41
ATOM	6646	CE2	PHE	987	-8.910	-12.070	33.493	1.00	12.09
ATOM	6647	CZ	PHE	987	-10.196	-11.724	33.885	1.00	13.88
ATOM	6648	C	PHE	987	-9.421	-11.491	28.955	1.00	11.22
ATOM	6649	O	PHE	987	-8.223	-11.220	28.861	1.00	9.94
ATOM	6650	N	MET	988	-10.371	-10.579	29.136	1.00	10.88

ATOM	6651	CA	MET	988	-10.118	-9.153	29.274	1.00	12.00
ATOM	6652	CB	MET	988	-9.447	-8.854	30.630	1.00	11.75
ATOM	6653	CG	MET	988	-9.721	-7.436	31.166	1.00	13.31
ATOM	6654	SD	MET	988	-11.475	-7.116	31.566	1.00	13.55
ATOM	6655	CE	MET	988	-11.538	-7.686	33.263	1.00	18.85
ATOM	6656	C	MET	988	-9.300	-8.512	28.159	1.00	13.38
ATOM	6657	O	MET	988	-8.568	-7.556	28.411	1.00	16.30
ATOM	6658	N	ALA	989	-9.420	-9.019	26.937	1.00	11.97
ATOM	6659	CA	ALA	989	-8.681	-8.450	25.816	1.00	12.87
ATOM	6660	CB	ALA	989	-8.073	-9.568	24.953	1.00	11.39
ATOM	6661	C	ALA	989	-9.585	-7.554	24.959	1.00	12.13
ATOM	6662	O	ALA	989	-9.158	-7.019	23.938	1.00	14.24
ATOM	6663	N	TYR	990	-10.833	-7.391	25.389	1.00	11.11
ATOM	6664	CA	TYR	990	-11.786	-6.538	24.694	1.00	11.34
ATOM	6665	CB	TYR	990	-12.591	-7.352	23.660	1.00	11.56
ATOM	6666	CG	TYR	990	-13.140	-8.668	24.180	1.00	14.52
ATOM	6667	CD1	TYR	990	-14.464	-8.776	24.593	1.00	11.96
ATOM	6668	CE1	TYR	990	-14.979	-9.979	25.082	1.00	14.62
ATOM	6669	CD2	TYR	990	-12.327	-9.802	24.267	1.00	12.94
ATOM	6670	CE2	TYR	990	-12.825	-11.017	24.759	1.00	14.62
ATOM	6671	CZ	TYR	990	-14.156	-11.091	25.163	1.00	15.49
ATOM	6672	OH	TYR	990	-14.675	-12.270	25.655	1.00	18.21
ATOM	6673	C	TYR	990	-12.706	-5.851	25.711	1.00	12.49
ATOM	6674	O	TYR	990	-13.906	-5.689	25.481	1.00	14.32
ATOM	6675	N	ALA	991	-12.116	-5.430	26.827	1.00	12.73
ATOM	6676	CA	ALA	991	-12.844	-4.770	27.913	1.00	12.56
ATOM	6677	CB	ALA	991	-11.927	-4.561	29.104	1.00	11.96
ATOM	6678	C	ALA	991	-13.424	-3.434	27.478	1.00	12.37
ATOM	6679	O	ALA	991	-14.410	-2.963	28.044	1.00	12.98
ATOM	6680	N	THR	992	-12.779	-2.803	26.505	1.00	13.27
ATOM	6681	CA	THR	992	-13.248	-1.527	25.967	1.00	13.52
ATOM	6682	CB	THR	992	-12.390	-0.333	26.462	1.00	15.27
ATOM	6683	OG1	THR	992	-11.069	-0.437	25.918	1.00	15.35
ATOM	6684	CG2	THR	992	-12.286	-0.326	27.983	1.00	15.49
ATOM	6685	C	THR	992	-13.093	-1.640	24.454	1.00	15.81
ATOM	6686	O	THR	992	-12.316	-2.463	23.965	1.00	11.88
ATOM	6687	N	PRO	993	-13.849	-0.839	23.690	1.00	14.26
ATOM	6688	CD	PRO	993	-15.022	-0.033	24.082	1.00	14.65
ATOM	6689	CA	PRO	993	-13.723	-0.912	22.233	1.00	15.27
ATOM	6690	CB	PRO	993	-14.663	0.189	21.756	1.00	13.69
ATOM	6691	CG	PRO	993	-15.781	0.103	22.771	1.00	14.48
ATOM	6692	C	PRO	993	-12.279	-0.675	21.794	1.00	15.17
ATOM	6693	O	PRO	993	-11.745	-1.403	20.955	1.00	14.48
ATOM	6694	N	GLU	994	-11.656	0.343	22.383	1.00	14.90
ATOM	6695	CA	GLU	994	-10.284	0.714	22.068	1.00	16.61
ATOM	6696	CB	GLU	994	-9.847	1.881	22.951	1.00	20.94
ATOM	6697	CG	GLU	994	-8.673	2.652	22.415	1.00	29.96
ATOM	6698	CD	GLU	994	-8.335	3.857	23.277	1.00	32.49
ATOM	6699	OE1	GLU	994	-7.498	3.719	24.199	1.00	35.55
ATOM	6700	OE2	GLU	994	-8.923	4.934	23.038	1.00	33.67
ATOM	6701	C	GLU	994	-9.313	-0.447	22.256	1.00	15.95
ATOM	6702	O	GLU	994	-8.439	-0.675	21.421	1.00	14.70
ATOM	6703	N	GLN	995	-9.455	-1.170	23.361	1.00	14.74
ATOM	6704	CA	GLN	995	-8.586	-2.307	23.625	1.00	14.57
ATOM	6705	CB	GLN	995	-8.758	-2.793	25.058	1.00	15.85
ATOM	6706	CG	GLN	995	-8.325	-1.765	26.084	1.00	22.47
ATOM	6707	CD	GLN	995	-8.360	-2.315	27.480	1.00	26.05
ATOM	6708	OE1	GLN	995	-7.468	-3.057	27.886	1.00	27.48
ATOM	6709	NE2	GLN	995	-9.414	-1.980	28.225	1.00	29.12
ATOM	6710	C	GLN	995	-8.892	-3.433	22.664	1.00	11.23
ATOM	6711	O	GLN	995	-7.992	-4.142	22.222	1.00	12.90
ATOM	6712	N	ALA	996	-10.170	-3.612	22.361	1.00	11.62
ATOM	6713	CA	ALA	996	-10.578	-4.647	21.422	1.00	10.29
ATOM	6714	CB	ALA	996	-12.103	-4.647	21.266	1.00	12.23
ATOM	6715	C	ALA	996	-9.917	-4.396	20.069	1.00	11.82
ATOM	6716	O	ALA	996	-9.402	-5.321	19.431	1.00	11.66
ATOM	6717	N	PHE	997	-9.933	-3.141	19.621	1.00	11.85
ATOM	6718	CA	PHE	997	-9.325	-2.808	18.327	1.00	13.01
ATOM	6719	CB	PHE	997	-9.423	-1.308	18.025	1.00	12.43
ATOM	6720	CG	PHE	997	-10.813	-0.747	18.100	1.00	12.02
ATOM	6721	CD1	PHE	997	-11.921	-1.528	17.811	1.00	14.72
ATOM	6722	CD2	PHE	997	-11.001	0.588	18.443	1.00	15.95
ATOM	6723	CE1	PHE	997	-13.209	-0.992	17.865	1.00	16.49
ATOM	6724	CE2	PHE	997	-12.279	1.140	18.499	1.00	13.96
ATOM	6725	CZ	PHE	997	-13.379	0.344	18.211	1.00	17.62
ATOM	6726	C	PHE	997	-7.846	-3.179	18.300	1.00	13.37
ATOM	6727	O	PHE	997	-7.364	-3.784	17.343	1.00	13.24



ATOM	6728	N	GLU	998	-7.128	-2.779	19.341	1.00	13.15
ATOM	6729	CA	GLU	998	-5.701	-3.054	19.430	1.00	15.16
ATOM	6730	CB	GLU	998	-5.123	-2.380	20.674	1.00	17.72
ATOM	6731	CG	GLU	998	-3.669	-2.700	20.952	1.00	24.55
ATOM	6732	CD	GLU	998	-2.709	-1.972	20.023	1.00	28.59
ATOM	6733	OE1	GLU	998	-3.168	-1.301	19.068	1.00	30.41
ATOM	6734	OE2	GLU	998	-1.486	-2.077	20.254	1.00	31.76
ATOM	6735	C	GLU	998	-5.389	-4.554	19.461	1.00	12.56
ATOM	6736	O	GLU	998	-4.523	-5.029	18.730	1.00	10.73
ATOM	6737	N	ASN	999	-6.093	-5.303	20.301	1.00	12.22
ATOM	6738	CA	ASN	999	-5.833	-6.729	20.393	1.00	12.09
ATOM	6739	CB	ASN	999	-6.429	-7.280	21.694	1.00	11.99
ATOM	6740	CG	ASN	999	-5.719	-6.735	22.912	1.00	14.10
ATOM	6741	OD1	ASN	999	-4.503	-6.514	22.869	1.00	13.95
ATOM	6742	ND2	ASN	999	-6.456	-6.520	24.010	1.00	13.68
ATOM	6743	C	ASN	999	-6.304	-7.523	19.182	1.00	12.22
ATOM	6744	O	ASN	999	-5.667	-8.504	18.775	1.00	10.24
ATOM	6745	N	ALA	1000	-7.411	-7.101	18.589	1.00	11.49
ATOM	6746	CA	ALA	1000	-7.912	-7.777	17.399	1.00	12.27
ATOM	6747	CB	ALA	1000	-9.280	-7.201	16.998	1.00	11.29
ATOM	6748	C	ALA	1000	-6.894	-7.571	16.265	1.00	12.84
ATOM	6749	O	ALA	1000	-6.617	-8.488	15.493	1.00	11.51
ATOM	6750	N	ALA	1001	-6.325	-6.371	16.174	1.00	12.62
ATOM	6751	CA	ALA	1001	-5.340	-6.094	15.128	1.00	12.98
ATOM	6752	CB	ALA	1001	-4.941	-4.619	15.165	1.00	11.69
ATOM	6753	C	ALA	1001	-4.107	-6.978	15.300	1.00	11.52
ATOM	6754	O	ALA	1001	-3.545	-7.477	14.324	1.00	11.98
ATOM	6755	N	THR	1002	-3.681	-7.165	16.542	1.00	10.66
ATOM	6756	CA	THR	1002	-2.515	-8.007	16.804	1.00	11.02
ATOM	6757	CB	THR	1002	-2.228	-8.117	18.319	1.00	11.27
ATOM	6758	OG1	THR	1002	-1.930	-6.813	18.841	1.00	12.88
ATOM	6759	CG2	THR	1002	-1.036	-9.040	18.584	1.00	11.56
ATOM	6760	C	THR	1002	-2.739	-9.411	16.246	1.00	10.94
ATOM	6761	O	THR	1002	-1.897	-9.952	15.523	1.00	11.20
ATOM	6762	N	VAL	1003	-3.881	-10.005	16.563	1.00	9.24
ATOM	6763	CA	VAL	1003	-4.154	-11.372	16.102	1.00	9.83
ATOM	6764	CB	VAL	1003	-5.342	-11.991	16.897	1.00	11.74
ATOM	6765	CG1	VAL	1003	-6.680	-11.511	16.373	1.00	10.79
ATOM	6766	CG2	VAL	1003	-5.231	-13.484	16.875	1.00	19.69
ATOM	6767	C	VAL	1003	-4.374	-11.466	14.593	1.00	10.01
ATOM	6768	O	VAL	1003	-3.999	-12.462	13.965	1.00	7.78
ATOM	6769	N	MET	1004	-4.967	-10.423	14.013	1.00	8.67
ATOM	6770	CA	MET	1004	-5.205	-10.368	12.570	1.00	11.82
ATOM	6771	CB	MET	1004	-6.107	-9.174	12.213	1.00	11.14
ATOM	6772	CG	MET	1004	-7.523	-9.240	12.728	1.00	16.34
ATOM	6773	SD	MET	1004	-8.546	-10.464	11.934	1.00	19.40
ATOM	6774	CE	MET	1004	-8.653	-9.772	10.242	1.00	17.67
ATOM	6775	C	MET	1004	-3.878	-10.211	11.825	1.00	10.89
ATOM	6776	O	MET	1004	-3.665	-10.860	10.807	1.00	13.67
ATOM	6777	N	ARG	1005	-2.988	-9.345	12.311	1.00	11.14
ATOM	6778	CA	ARG	1005	-1.708	-9.184	11.619	1.00	11.02
ATOM	6779	CB	ARG	1005	-0.862	-8.066	12.234	1.00	12.00
ATOM	6780	CG	ARG	1005	-1.490	-6.689	12.114	1.00	16.37
ATOM	6781	CD	ARG	1005	-0.472	-5.584	12.356	1.00	15.62
ATOM	6782	NE	ARG	1005	-1.134	-4.292	12.558	1.00	17.19
ATOM	6783	CZ	ARG	1005	-1.491	-3.811	13.744	1.00	16.30
ATOM	6784	NH1	ARG	1005	-1.248	-4.501	14.854	1.00	16.09
ATOM	6785	NH2	ARG	1005	-2.110	-2.646	13.818	1.00	17.74
ATOM	6786	C	ARG	1005	-0.916	-10.491	11.659	1.00	11.70
ATOM	6787	O	ARG	1005	-0.139	-10.787	10.750	1.00	11.26
ATOM	6788	N	ALA	1006	-1.142	-11.266	12.716	1.00	11.42
ATOM	6789	CA	ALA	1006	-0.475	-12.540	12.918	1.00	11.69
ATOM	6790	CB	ALA	1006	-0.660	-12.996	14.363	1.00	12.29
ATOM	6791	C	ALA	1006	-0.955	-13.639	11.963	1.00	14.06
ATOM	6792	O	ALA	1006	-0.333	-14.703	11.864	1.00	13.17
ATOM	6793	N	GLY	1007	-2.068	-13.399	11.280	1.00	11.67
ATOM	6794	CA	GLY	1007	-2.558	-14.384	10.336	1.00	13.30
ATOM	6795	C	GLY	1007	-4.043	-14.701	10.358	1.00	11.83
ATOM	6796	O	GLY	1007	-4.546	-15.400	9.474	1.00	13.69
ATOM	6797	N	ALA	1008	-4.750	-14.183	11.354	1.00	10.96
ATOM	6798	CA	ALA	1008	-6.177	-14.430	11.484	1.00	10.68
ATOM	6799	CB	ALA	1008	-6.641	-14.059	12.894	1.00	11.65
ATOM	6800	C	ALA	1008	-7.010	-13.665	10.453	1.00	13.14
ATOM	6801	O	ALA	1008	-6.591	-12.624	9.951	1.00	14.60
ATOM	6802	N	ASN	1009	-8.193	-14.192	10.151	1.00	12.15
ATOM	6803	CA	ASN	1009	-9.115	-13.567	9.200	1.00	11.79
ATOM	6804	CB	ASN	1009	-9.652	-14.579	8.197	1.00	13.02

ATOM	6805	CG	ASN	1009	-8.583	-15.225	7.376	1.00	13.44
ATOM	6806	OD1	ASN	1009	-7.839	-14.559	6.664	1.00	15.40
ATOM	6807	ND2	ASN	1009	-8.507	-16.550	7.457	1.00	10.54
ATOM	6808	C	ASN	1009	-10.327	-13.057	9.954	1.00	11.95
ATOM	6809	O	ASN	1009	-11.119	-12.276	9.429	1.00	11.36
ATOM	6810	N	MET	1010	-10.493	-13.536	11.177	1.00	11.61
ATOM	6811	CA	MET	1010	-11.660	-13.165	11.956	1.00	12.67
ATOM	6812	CB	MET	1010	-12.824	-14.052	11.513	1.00	10.94
ATOM	6813	CG	MET	1010	-14.101	-13.892	12.297	1.00	16.45
ATOM	6814	SD	MET	1010	-15.423	-14.958	11.623	1.00	18.40
ATOM	6815	CE	MET	1010	-16.334	-13.742	10.618	1.00	17.91
ATOM	6816	C	MET	1010	-11.357	-13.364	13.431	1.00	12.79
ATOM	6817	O	MET	1010	-10.541	-14.207	13.792	1.00	10.90
ATOM	6818	N	VAL	1011	-12.005	-12.571	14.276	1.00	11.92
ATOM	6819	CA	VAL	1011	-11.787	-12.664	15.701	1.00	12.96
ATOM	6820	CB	VAL	1011	-11.327	-11.300	16.246	1.00	14.64
ATOM	6821	CG1	VAL	1011	-11.267	-11.331	17.739	1.00	21.61
ATOM	6822	CG2	VAL	1011	-9.950	-10.951	15.668	1.00	14.08
ATOM	6823	C	VAL	1011	-13.064	-13.121	16.397	1.00	11.60
ATOM	6824	O	VAL	1011	-14.165	-12.769	15.978	1.00	11.44
ATOM	6825	N	LYS	1012	-12.924	-13.940	17.436	1.00	11.24
ATOM	6826	CA	LYS	1012	-14.088	-14.399	18.187	1.00	10.46
ATOM	6827	CB	LYS	1012	-14.130	-15.928	18.292	1.00	12.52
ATOM	6828	CG	LYS	1012	-15.317	-16.422	19.124	1.00	14.74
ATOM	6829	CD	LYS	1012	-15.735	-17.857	18.795	1.00	15.78
ATOM	6830	CE	LYS	1012	-14.687	-18.869	19.223	1.00	14.61
ATOM	6831	NZ	LYS	1012	-14.548	-18.899	20.722	1.00	13.04
ATOM	6832	C	LYS	1012	-14.050	-13.810	19.590	1.00	11.96
ATOM	6833	O	LYS	1012	-13.015	-13.831	20.261	1.00	13.92
ATOM	6834	N	ILE	1013	-15.186	-13.280	20.028	1.00	12.31
ATOM	6835	CA	ILE	1013	-15.292	-12.693	21.357	1.00	13.37
ATOM	6836	CB	ILE	1013	-15.325	-11.149	21.278	1.00	13.64
ATOM	6837	CG2	ILE	1013	-13.959	-10.625	20.802	1.00	13.46
ATOM	6838	CG1	ILE	1013	-16.419	-10.690	20.313	1.00	14.17
ATOM	6839	CD1	ILE	1013	-16.605	-9.181	20.299	1.00	16.29
ATOM	6840	C	ILE	1013	-16.540	-13.213	22.062	1.00	14.88
ATOM	6841	O	ILE	1013	-17.538	-13.525	21.414	1.00	14.92
ATOM	6842	N	GLU	1014	-16.475	-13.304	23.388	1.00	14.84
ATOM	6843	CA	GLU	1014	-17.581	-13.814	24.199	1.00	17.49
ATOM	6844	CB	GLU	1014	-17.039	-14.690	25.334	1.00	14.94
ATOM	6845	CG	GLU	1014	-16.318	-15.943	24.884	1.00	18.47
ATOM	6846	CD	GLU	1014	-15.753	-16.757	26.052	1.00	18.83
ATOM	6847	OE1	GLU	1014	-16.166	-16.532	27.205	1.00	20.52
ATOM	6848	OE2	GLU	1014	-14.900	-17.629	25.811	1.00	20.24
ATOM	6849	C	GLU	1014	-18.441	-12.722	24.818	1.00	17.91
ATOM	6850	O	GLU	1014	-17.928	-11.775	25.410	1.00	18.79
ATOM	6851	N	GLY	1015	-19.755	-12.862	24.704	1.00	19.87
ATOM	6852	CA	GLY	1015	-20.623	-11.864	25.292	1.00	20.15
ATOM	6853	C	GLY	1015	-21.824	-11.530	24.445	1.00	22.90
ATOM	6854	O	GLY	1015	-21.869	-11.843	23.254	1.00	22.51
ATOM	6855	N	GLY	1016	-22.802	-10.879	25.064	1.00	23.73
ATOM	6856	CA	GLY	1016	-24.010	-10.523	24.345	1.00	24.26
ATOM	6857	C	GLY	1016	-24.190	-9.048	24.052	1.00	24.54
ATOM	6858	O	GLY	1016	-23.329	-8.408	23.448	1.00	23.49
ATOM	6859	N	GLU	1017	-25.329	-8.518	24.486	1.00	24.54
ATOM	6860	CA	GLU	1017	-25.685	-7.118	24.273	1.00	25.84
ATOM	6861	CB	GLU	1017	-26.866	-6.730	25.170	1.00	29.29
ATOM	6862	CG	GLU	1017	-28.235	-6.870	24.538	1.00	37.68
ATOM	6863	CD	GLU	1017	-28.601	-5.692	23.644	1.00	39.61
ATOM	6864	OE1	GLU	1017	-27.961	-5.504	22.590	1.00	39.67
ATOM	6865	OE2	GLU	1017	-29.533	-4.943	24.012	1.00	43.46
ATOM	6866	C	GLU	1017	-24.565	-6.113	24.499	1.00	22.37
ATOM	6867	O	GLU	1017	-24.354	-5.229	23.673	1.00	20.28
ATOM	6868	N	TRP	1018	-23.857	-6.240	25.617	1.00	21.77
ATOM	6869	CA	TRP	1018	-22.794	-5.295	25.939	1.00	20.32
ATOM	6870	CB	TRP	1018	-22.173	-5.621	27.309	1.00	20.17
ATOM	6871	CG	TRP	1018	-21.268	-6.820	27.342	1.00	18.75
ATOM	6872	CD2	TRP	1018	-19.835	-6.807	27.366	1.00	18.11
ATOM	6873	CE2	TRP	1018	-19.405	-8.151	27.412	1.00	18.06
ATOM	6874	CE3	TRP	1018	-18.872	-5.790	27.350	1.00	16.22
ATOM	6875	CD1	TRP	1018	-21.640	-8.129	27.373	1.00	20.49
ATOM	6876	NE1	TRP	1018	-20.527	-8.938	27.420	1.00	20.28
ATOM	6877	CZ2	TRP	1018	-18.049	-8.506	27.446	1.00	18.14
ATOM	6878	CZ3	TRP	1018	-17.523	-6.146	27.384	1.00	17.33
ATOM	6879	CH2	TRP	1018	-17.129	-7.495	27.430	1.00	16.12
ATOM	6880	C	TRP	1018	-21.692	-5.171	24.896	1.00	18.60
ATOM	6881	O	TRP	1018	-20.943	-4.193	24.901	1.00	20.29

ATOM	6882	N	LEU	1019	-21.612	-6.143	23.992	1.00	17.89
ATOM	6883	CA	LEU	1019	-20.591	-6.150	22.942	1.00	18.29
ATOM	6884	CB	LEU	1019	-20.134	-7.581	22.671	1.00	18.15
ATOM	6885	CG	LEU	1019	-19.257	-8.224	23.742	1.00	18.92
ATOM	6886	CD1	LEU	1019	-18.970	-9.657	23.341	1.00	18.85
ATOM	6887	CD2	LEU	1019	-17.969	-7.431	23.886	1.00	17.98
ATOM	6888	C	LEU	1019	-21.024	-5.538	21.613	1.00	19.71
ATOM	6889	O	LEU	1019	-20.206	-5.395	20.707	1.00	18.84
ATOM	6890	N	VAL	1020	-22.301	-5.190	21.496	1.00	19.00
ATOM	6891	CA	VAL	1020	-22.833	-4.612	20.272	1.00	19.17
ATOM	6892	CB	VAL	1020	-24.281	-4.105	20.489	1.00	20.01
ATOM	6893	CG1	VAL	1020	-24.714	-3.204	19.347	1.00	18.49
ATOM	6894	CG2	VAL	1020	-25.224	-5.301	20.579	1.00	19.83
ATOM	6895	C	VAL	1020	-21.987	-3.478	19.708	1.00	20.01
ATOM	6896	O	VAL	1020	-21.596	-3.505	18.540	1.00	20.16
ATOM	6897	N	GLU	1021	-21.697	-2.486	20.539	1.00	20.60
ATOM	6898	CA	GLU	1021	-20.899	-1.351	20.107	1.00	21.01
ATOM	6899	CB	GLU	1021	-20.744	-0.355	21.254	1.00	26.20
ATOM	6900	CG	GLU	1021	-19.763	0.761	20.952	1.00	30.81
ATOM	6901	CD	GLU	1021	-19.791	1.857	21.994	1.00	35.68
ATOM	6902	OE1	GLU	1021	-19.602	1.551	23.193	1.00	38.35
ATOM	6903	OE2	GLU	1021	-20.002	3.026	21.606	1.00	38.75
ATOM	6904	C	GLU	1021	-19.523	-1.772	19.606	1.00	19.64
ATOM	6905	O	GLU	1021	-19.062	-1.327	18.555	1.00	18.56
ATOM	6906	N	THR	1022	-18.862	-2.624	20.375	1.00	18.69
ATOM	6907	CA	THR	1022	-17.539	-3.107	20.010	1.00	17.98
ATOM	6908	CB	THR	1022	-17.001	-4.052	21.103	1.00	18.81
ATOM	6909	OG1	THR	1022	-16.885	-3.323	22.329	1.00	16.49
ATOM	6910	CG2	THR	1022	-15.633	-4.606	20.721	1.00	17.33
ATOM	6911	C	THR	1022	-17.575	-3.831	18.664	1.00	17.26
ATOM	6912	O	THR	1022	-16.707	-3.630	17.808	1.00	18.36
ATOM	6913	N	VAL	1023	-18.588	-4.670	18.478	1.00	17.37
ATOM	6914	CA	VAL	1023	-18.742	-5.415	17.232	1.00	16.94
ATOM	6915	CB	VAL	1023	-19.918	-6.402	17.317	1.00	16.32
ATOM	6916	CG1	VAL	1023	-20.170	-7.033	15.937	1.00	19.55
ATOM	6917	CG2	VAL	1023	-19.606	-7.484	18.338	1.00	17.66
ATOM	6918	C	VAL	1023	-18.972	-4.484	16.048	1.00	18.30
ATOM	6919	O	VAL	1023	-18.386	-4.666	14.976	1.00	16.65
ATOM	6920	N	GLN	1024	-19.828	-3.488	16.242	1.00	18.44
ATOM	6921	CA	GLN	1024	-20.125	-2.540	15.169	1.00	20.28
ATOM	6922	CB	GLN	1024	-21.152	-1.498	15.631	1.00	22.35
ATOM	6923	CG	GLN	1024	-22.494	-2.088	16.057	1.00	28.92
ATOM	6924	CD	GLN	1024	-23.512	-1.029	16.479	1.00	31.59
ATOM	6925	OE1	GLN	1024	-23.238	-0.195	17.349	1.00	32.26
ATOM	6926	NE2	GLN	1024	-24.700	-1.069	15.871	1.00	31.37
ATOM	6927	C	GLN	1024	-18.841	-1.840	14.740	1.00	18.28
ATOM	6928	O	GLN	1024	-18.519	-1.791	13.554	1.00	19.29
ATOM	6929	N	MET	1025	-18.104	-1.319	15.717	1.00	16.21
ATOM	6930	CA	MET	1025	-16.866	-0.608	15.445	1.00	16.11
ATOM	6931	CB	MET	1025	-16.388	0.105	16.716	1.00	17.05
ATOM	6932	CG	MET	1025	-17.392	1.124	17.243	1.00	19.13
ATOM	6933	SD	MET	1025	-16.834	1.990	18.708	1.00	22.52
ATOM	6934	CE	MET	1025	-15.842	3.246	17.969	1.00	20.06
ATOM	6935	C	MET	1025	-15.761	-1.493	14.871	1.00	15.89
ATOM	6936	O	MET	1025	-15.026	-1.070	13.978	1.00	15.39
ATOM	6937	N	LEU	1026	-15.630	-2.719	15.374	1.00	15.63
ATOM	6938	CA	LEU	1026	-14.602	-3.614	14.852	1.00	14.77
ATOM	6939	CB	LEU	1026	-14.660	-4.970	15.563	1.00	13.09
ATOM	6940	CG	LEU	1026	-13.841	-4.992	16.852	1.00	12.23
ATOM	6941	CD1	LEU	1026	-14.160	-6.247	17.654	1.00	10.28
ATOM	6942	CD2	LEU	1026	-12.354	-4.920	16.493	1.00	9.62
ATOM	6943	C	LEU	1026	-14.771	-3.821	13.353	1.00	15.22
ATOM	6944	O	LEU	1026	-13.810	-3.709	12.588	1.00	13.79
ATOM	6945	N	THR	1027	-16.003	-4.115	12.947	1.00	18.88
ATOM	6946	CA	THR	1027	-16.337	-4.344	11.544	1.00	23.03
ATOM	6947	CB	THR	1027	-17.863	-4.600	11.369	1.00	25.20
ATOM	6948	OG1	THR	1027	-18.251	-5.736	12.150	1.00	29.61
ATOM	6949	CG2	THR	1027	-18.198	-4.884	9.905	1.00	30.36
ATOM	6950	C	THR	1027	-15.923	-3.177	10.645	1.00	23.34
ATOM	6951	O	THR	1027	-15.251	-3.378	9.630	1.00	21.92
ATOM	6952	N	GLU	1028	-16.315	-1.957	11.005	1.00	23.53
ATOM	6953	CA	GLU	1028	-15.945	-0.807	10.181	1.00	24.72
ATOM	6954	CB	GLU	1028	-16.678	0.466	10.643	1.00	27.14
ATOM	6955	CG	GLU	1028	-17.060	0.487	12.105	1.00	28.12
ATOM	6956	CD	GLU	1028	-17.832	1.740	12.511	1.00	25.37
ATOM	6957	OE1	GLU	1028	-18.914	2.007	11.949	1.00	26.88
ATOM	6958	OE2	GLU	1028	-17.362	2.462	13.408	1.00	24.11

ATOM	6959	C	GLU	1028	-14.433	-0.597	10.173	1.00	24.26
ATOM	6960	O	GLU	1028	-13.895	0.084	9.299	1.00	24.65
ATOM	6961	N	ARG	1029	-13.740	-1.196	11.137	1.00	21.79
ATOM	6962	CA	ARG	1029	-12.295	-1.075	11.178	1.00	19.58
ATOM	6963	CB	ARG	1029	-11.830	-0.831	12.613	1.00	18.96
ATOM	6964	CG	ARG	1029	-12.242	0.557	13.083	1.00	20.16
ATOM	6965	CD	ARG	1029	-12.178	0.735	14.577	1.00	16.37
ATOM	6966	NE	ARG	1029	-12.643	2.075	14.944	1.00	18.38
ATOM	6967	CZ	ARG	1029	-13.881	2.524	14.749	1.00	15.81
ATOM	6968	NH1	ARG	1029	-14.800	1.745	14.192	1.00	15.80
ATOM	6969	NH2	ARG	1029	-14.202	3.762	15.104	1.00	17.73
ATOM	6970	C	ARG	1029	-11.613	-2.290	10.548	1.00	18.96
ATOM	6971	O	ARG	1029	-10.479	-2.628	10.882	1.00	18.45
ATOM	6972	N	ALA	1030	-12.341	-2.939	9.638	1.00	18.34
ATOM	6973	CA	ALA	1030	-11.849	-4.081	8.869	1.00	16.44
ATOM	6974	CB	ALA	1030	-10.532	-3.702	8.187	1.00	17.45
ATOM	6975	C	ALA	1030	-11.683	-5.404	9.599	1.00	15.43
ATOM	6976	O	ALA	1030	-11.004	-6.292	9.094	1.00	15.15
ATOM	6977	N	VAL	1031	-12.305	-5.544	10.766	1.00	14.41
ATOM	6978	CA	VAL	1031	-12.205	-6.783	11.529	1.00	14.99
ATOM	6979	CB	VAL	1031	-11.741	-6.513	12.990	1.00	15.55
ATOM	6980	CG1	VAL	1031	-11.730	-7.811	13.792	1.00	15.39
ATOM	6981	CG2	VAL	1031	-10.351	-5.899	12.988	1.00	16.52
ATOM	6982	C	VAL	1031	-13.523	-7.548	11.587	1.00	14.09
ATOM	6983	O	VAL	1031	-14.499	-7.074	12.175	1.00	14.29
ATOM	6984	N	PRO	1032	-13.581	-8.726	10.941	1.00	13.45
ATOM	6985	CD	PRO	1032	-12.645	-9.221	9.920	1.00	14.69
ATOM	6986	CA	PRO	1032	-14.806	-9.532	10.965	1.00	13.56
ATOM	6987	CB	PRO	1032	-14.605	-10.534	9.827	1.00	13.39
ATOM	6988	CG	PRO	1032	-13.133	-10.622	9.698	1.00	19.95
ATOM	6989	C	PRO	1032	-14.872	-10.187	12.337	1.00	13.75
ATOM	6990	O	PRO	1032	-13.850	-10.572	12.905	1.00	14.39
ATOM	6991	N	VAL	1033	-16.077	-10.298	12.870	1.00	13.91
ATOM	6992	CA	VAL	1033	-16.265	-10.846	14.200	1.00	13.00
ATOM	6993	CB	VAL	1033	-16.871	-9.776	15.137	1.00	13.98
ATOM	6994	CG1	VAL	1033	-17.112	-10.343	16.534	1.00	12.93
ATOM	6995	CG2	VAL	1033	-15.968	-8.566	15.189	1.00	12.31
ATOM	6996	C	VAL	1033	-17.175	-12.047	14.239	1.00	14.20
ATOM	6997	O	VAL	1033	-18.219	-12.078	13.580	1.00	13.95
ATOM	6998	N	CYS	1034	-16.768	-13.040	15.019	1.00	12.45
ATOM	6999	CA	CYS	1034	-17.577	-14.232	15.222	1.00	14.01
ATOM	7000	CB	CYS	1034	-16.739	-15.504	15.078	1.00	12.96
ATOM	7001	SG	CYS	1034	-17.660	-17.005	15.555	1.00	15.25
ATOM	7002	C	CYS	1034	-18.057	-14.097	16.661	1.00	13.22
ATOM	7003	O	CYS	1034	-17.251	-13.898	17.569	1.00	12.90
ATOM	7004	N	GLY	1035	-19.370	-14.176	16.850	1.00	13.48
ATOM	7005	CA	GLY	1035	-19.940	-14.071	18.172	1.00	15.44
ATOM	7006	C	GLY	1035	-19.826	-15.397	18.897	1.00	15.74
ATOM	7007	O	GLY	1035	-19.491	-16.422	18.294	1.00	16.26
ATOM	7008	N	HIS	1036	-20.107	-15.372	20.196	1.00	15.37
ATOM	7009	CA	HIS	1036	-20.027	-16.560	21.030	1.00	15.58
ATOM	7010	CB	HIS	1036	-18.582	-16.744	21.507	1.00	16.13
ATOM	7011	CG	HIS	1036	-18.335	-18.021	22.246	1.00	17.83
ATOM	7012	CD2	HIS	1036	-19.187	-18.943	22.755	1.00	19.01
ATOM	7013	ND1	HIS	1036	-17.065	-18.479	22.525	1.00	18.18
ATOM	7014	CE1	HIS	1036	-17.145	-19.629	23.171	1.00	20.16
ATOM	7015	NE2	HIS	1036	-18.422	-19.933	23.324	1.00	18.10
ATOM	7016	C	HIS	1036	-20.971	-16.397	22.223	1.00	15.56
ATOM	7017	O	HIS	1036	-20.705	-15.616	23.135	1.00	14.91
ATOM	7018	N	LEU	1037	-22.072	-17.139	22.201	1.00	14.85
ATOM	7019	CA	LEU	1037	-23.079	-17.075	23.254	1.00	19.01
ATOM	7020	CB	LEU	1037	-24.404	-16.551	22.685	1.00	19.62
ATOM	7021	CG	LEU	1037	-24.384	-15.141	22.079	1.00	20.40
ATOM	7022	CD1	LEU	1037	-25.681	-14.870	21.323	1.00	21.01
ATOM	7023	CD2	LEU	1037	-24.184	-14.127	23.196	1.00	22.34
ATOM	7024	C	LEU	1037	-23.327	-18.434	23.884	1.00	20.82
ATOM	7025	O	LEU	1037	-22.970	-19.475	23.320	1.00	20.02
ATOM	7026	N	GLY	1038	-23.967	-18.410	25.048	1.00	22.55
ATOM	7027	CA	GLY	1038	-24.271	-19.637	25.764	1.00	25.04
ATOM	7028	C	GLY	1038	-23.304	-19.816	26.909	1.00	26.30
ATOM	7029	O	GLY	1038	-23.171	-18.944	27.767	1.00	27.66
ATOM	7030	N	LEU	1039	-22.619	-20.951	26.925	1.00	28.14
ATOM	7031	CA	LEU	1039	-21.655	-21.221	27.976	1.00	29.16
ATOM	7032	CB	LEU	1039	-21.525	-22.736	28.173	1.00	31.16
ATOM	7033	CG	LEU	1039	-20.968	-23.253	29.503	1.00	33.32
ATOM	7034	CD1	LEU	1039	-21.160	-24.764	29.570	1.00	35.58
ATOM	7035	CD2	LEU	1039	-19.503	-22.891	29.641	1.00	34.73

ATOM	7036	C	LEU	1039	-20.310	-20.600	27.580	1.00	28.75
ATOM	7037	O	LEU	1039	-19.542	-21.188	26.820	1.00	30.49
ATOM	7038	N	THR	1040	-20.049	-19.397	28.085	1.00	29.32
ATOM	7039	CA	THR	1040	-18.806	-18.677	27.806	1.00	29.10
ATOM	7040	CB	THR	1040	-19.043	-17.147	27.758	1.00	30.20
ATOM	7041	OG1	THR	1040	-19.892	-16.753	28.844	1.00	29.44
ATOM	7042	CG2	THR	1040	-19.688	-16.746	26.445	1.00	32.08
ATOM	7043	C	THR	1040	-17.781	-18.999	28.893	1.00	28.48
ATOM	7044	O	THR	1040	-17.808	-18.420	29.980	1.00	29.20
ATOM	7045	N	PRO	1041	-16.850	-19.920	28.597	1.00	28.41
ATOM	7046	CD	PRO	1041	-16.620	-20.464	27.246	1.00	28.58
ATOM	7047	CA	PRO	1041	-15.797	-20.363	29.518	1.00	27.50
ATOM	7048	CB	PRO	1041	-14.949	-21.298	28.652	1.00	28.87
ATOM	7049	CG	PRO	1041	-15.152	-20.773	27.279	1.00	32.35
ATOM	7050	C	PRO	1041	-14.972	-19.275	30.206	1.00	26.35
ATOM	7051	O	PRO	1041	-14.484	-19.479	31.320	1.00	24.47
ATOM	7052	N	GLN	1042	-14.802	-18.126	29.558	1.00	23.87
ATOM	7053	CA	GLN	1042	-14.043	-17.050	30.188	1.00	23.26
ATOM	7054	CB	GLN	1042	-13.872	-15.868	29.223	1.00	22.94
ATOM	7055	CG	GLN	1042	-12.682	-16.011	28.273	1.00	19.12
ATOM	7056	CD	GLN	1042	-12.640	-14.915	27.228	1.00	22.27
ATOM	7057	OE1	GLN	1042	-13.082	-13.792	27.478	1.00	21.44
ATOM	7058	NE2	GLN	1042	-12.098	-15.231	26.049	1.00	19.01
ATOM	7059	C	GLN	1042	-14.737	-16.597	31.475	1.00	22.74
ATOM	7060	O	GLN	1042	-14.084	-16.144	32.410	1.00	22.65
ATOM	7061	N	SER	1043	-16.059	-16.739	31.532	1.00	24.41
ATOM	7062	CA	SER	1043	-16.809	-16.339	32.723	1.00	24.75
ATOM	7063	CB	SER	1043	-18.185	-15.799	32.326	1.00	26.59
ATOM	7064	OG	SER	1043	-18.069	-14.611	31.563	1.00	29.05
ATOM	7065	C	SER	1043	-16.981	-17.493	33.710	1.00	24.52
ATOM	7066	O	SER	1043	-17.845	-17.440	34.581	1.00	25.87
ATOM	7067	N	VAL	1044	-16.149	-18.524	33.578	1.00	23.32
ATOM	7068	CA	VAL	1044	-16.227	-19.695	34.454	1.00	22.51
ATOM	7069	CB	VAL	1044	-15.004	-20.632	34.249	1.00	23.18
ATOM	7070	CG1	VAL	1044	-13.718	-19.911	34.614	1.00	22.95
ATOM	7071	CG2	VAL	1044	-15.166	-21.895	35.084	1.00	22.94
ATOM	7072	C	VAL	1044	-16.338	-19.326	35.933	1.00	22.48
ATOM	7073	O	VAL	1044	-17.060	-19.982	36.682	1.00	23.24
ATOM	7074	N	ASN	1045	-15.626	-18.287	36.360	1.00	22.59
ATOM	7075	CA	ASN	1045	-15.685	-17.879	37.761	1.00	24.64
ATOM	7076	CB	ASN	1045	-14.546	-16.911	38.091	1.00	23.05
ATOM	7077	CG	ASN	1045	-13.187	-17.545	37.913	1.00	21.46
ATOM	7078	OD1	ASN	1045	-12.806	-18.447	38.666	1.00	20.69
ATOM	7079	ND2	ASN	1045	-12.453	-17.096	36.904	1.00	20.14
ATOM	7080	C	ASN	1045	-17.019	-17.237	38.107	1.00	25.96
ATOM	7081	O	ASN	1045	-17.458	-17.289	39.257	1.00	26.58
ATOM	7082	N	ILE	1046	-17.666	-16.633	37.115	1.00	28.57
ATOM	7083	CA	ILE	1046	-18.962	-15.997	37.342	1.00	30.78
ATOM	7084	CB	ILE	1046	-19.397	-15.116	36.141	1.00	30.35
ATOM	7085	CG2	ILE	1046	-20.822	-14.616	36.356	1.00	29.76
ATOM	7086	CG1	ILE	1046	-18.440	-13.933	35.970	1.00	29.93
ATOM	7087	CD1	ILE	1046	-18.419	-12.976	37.145	1.00	28.61
ATOM	7088	C	ILE	1046	-20.023	-17.067	37.551	1.00	32.86
ATOM	7089	O	ILE	1046	-20.841	-16.971	38.466	1.00	32.88
ATOM	7090	N	PHE	1047	-20.008	-18.084	36.693	1.00	35.65
ATOM	7091	CA	PHE	1047	-20.977	-19.174	36.783	1.00	39.34
ATOM	7092	CB	PHE	1047	-21.125	-19.878	35.430	1.00	40.96
ATOM	7093	CG	PHE	1047	-21.373	-18.946	34.277	1.00	43.16
ATOM	7094	CD1	PHE	1047	-22.418	-18.029	34.313	1.00	45.03
ATOM	7095	CD2	PHE	1047	-20.570	-19.003	33.141	1.00	44.64
ATOM	7096	CE1	PHE	1047	-22.660	-17.177	33.234	1.00	45.71
ATOM	7097	CE2	PHE	1047	-20.803	-18.157	32.057	1.00	45.87
ATOM	7098	CZ	PHE	1047	-21.851	-17.243	32.104	1.00	46.15
ATOM	7099	C	PHE	1047	-20.559	-20.204	37.829	1.00	40.40
ATOM	7100	O	PHE	1047	-21.384	-20.982	38.309	1.00	40.84
ATOM	7101	N	GLY	1048	-19.275	-20.208	38.174	1.00	40.74
ATOM	7102	CA	GLY	1048	-18.780	-21.157	39.153	1.00	41.82
ATOM	7103	C	GLY	1048	-18.688	-22.550	38.561	1.00	43.00
ATOM	7104	O	GLY	1048	-18.995	-23.546	39.220	1.00	42.75
ATOM	7105	N	GLY	1049	-18.262	-22.617	37.306	1.00	43.62
ATOM	7106	CA	GLY	1049	-18.140	-23.893	36.629	1.00	45.01
ATOM	7107	C	GLY	1049	-18.709	-23.799	35.229	1.00	46.15
ATOM	7108	O	GLY	1049	-19.129	-22.723	34.800	1.00	45.08
ATOM	7109	N	TYR	1050	-18.725	-24.919	34.513	1.00	47.77
ATOM	7110	CA	TYR	1050	-19.255	-24.940	33.156	1.00	49.51
ATOM	7111	CB	TYR	1050	-18.312	-25.707	32.227	1.00	49.59
ATOM	7112	CG	TYR	1050	-16.897	-25.181	32.246	1.00	49.48

ATOM	7113	CD1	TYR	1050	-15.963	-25.674	33.153	1.00	49.47
ATOM	7114	CE1	TYR	1050	-14.669	-25.170	33.196	1.00	50.01
ATOM	7115	CD2	TYR	1050	-16.499	-24.166	31.376	1.00	49.76
ATOM	7116	CE2	TYR	1050	-15.207	-23.652	31.411	1.00	49.86
ATOM	7117	CZ	TYR	1050	-14.298	-24.159	32.323	1.00	50.33
ATOM	7118	OH	TYR	1050	-13.019	-23.657	32.370	1.00	50.67
ATOM	7119	C	TYR	1050	-20.635	-25.576	33.136	1.00	50.55
ATOM	7120	O	TYR	1050	-20.778	-26.770	32.876	1.00	50.84
ATOM	7121	N	LYS	1051	-21.648	-24.760	33.412	1.00	51.54
ATOM	7122	CA	LYS	1051	-23.031	-25.218	33.444	1.00	52.63
ATOM	7123	CB	LYS	1051	-23.738	-24.620	34.662	1.00	53.67
ATOM	7124	CG	LYS	1051	-22.963	-24.790	35.960	1.00	55.80
ATOM	7125	CD	LYS	1051	-23.561	-23.961	37.087	1.00	56.82
ATOM	7126	CE	LYS	1051	-22.680	-24.006	38.328	1.00	57.73
ATOM	7127	NZ	LYS	1051	-23.192	-23.119	39.410	1.00	58.17
ATOM	7128	C	LYS	1051	-23.756	-24.804	32.165	1.00	52.42
ATOM	7129	O	LYS	1051	-23.359	-23.850	31.495	1.00	51.97
ATOM	7130	N	VAL	1052	-24.821	-25.526	31.832	1.00	52.32
ATOM	7131	CA	VAL	1052	-25.595	-25.237	30.632	1.00	52.55
ATOM	7132	CB	VAL	1052	-26.555	-26.397	30.299	1.00	51.86
ATOM	7133	CG1	VAL	1052	-27.330	-26.087	29.025	1.00	51.77
ATOM	7134	CG2	VAL	1052	-25.771	-27.688	30.147	1.00	51.56
ATOM	7135	C	VAL	1052	-26.414	-23.959	30.779	1.00	52.86
ATOM	7136	O	VAL	1052	-26.992	-23.698	31.834	1.00	52.72
ATOM	7137	N	GLN	1053	-26.449	-23.164	29.714	1.00	53.38
ATOM	7138	CA	GLN	1053	-27.207	-21.917	29.701	1.00	53.40
ATOM	7139	CB	GLN	1053	-26.328	-20.754	29.234	1.00	53.64
ATOM	7140	CG	GLN	1053	-25.598	-20.014	30.348	1.00	54.11
ATOM	7141	CD	GLN	1053	-24.605	-20.884	31.081	1.00	53.82
ATOM	7142	OE1	GLN	1053	-23.756	-21.525	30.465	1.00	55.31
ATOM	7143	NE2	GLN	1053	-24.697	-20.904	32.406	1.00	53.40
ATOM	7144	C	GLN	1053	-28.410	-22.044	28.773	1.00	53.18
ATOM	7145	O	GLN	1053	-28.560	-23.043	28.070	1.00	52.32
ATOM	7146	N	GLY	1054	-29.261	-21.024	28.773	1.00	53.68
ATOM	7147	CA	GLY	1054	-30.440	-21.045	27.927	1.00	54.63
ATOM	7148	C	GLY	1054	-31.592	-21.795	28.567	1.00	55.39
ATOM	7149	O	GLY	1054	-32.719	-21.745	28.080	1.00	55.28
ATOM	7150	N	ARG	1055	-31.303	-22.495	29.660	1.00	56.01
ATOM	7151	CA	ARG	1055	-32.314	-23.255	30.382	1.00	57.40
ATOM	7152	CB	ARG	1055	-31.674	-24.003	31.556	1.00	59.12
ATOM	7153	CG	ARG	1055	-30.714	-25.123	31.166	1.00	61.02
ATOM	7154	CD	ARG	1055	-31.455	-26.328	30.604	1.00	62.44
ATOM	7155	NE	ARG	1055	-30.566	-27.459	30.347	1.00	63.71
ATOM	7156	CZ	ARG	1055	-29.867	-28.095	31.284	1.00	64.04
ATOM	7157	NH1	ARG	1055	-29.949	-27.713	32.551	1.00	64.28
ATOM	7158	NH2	ARG	1055	-29.086	-29.117	30.955	1.00	64.25
ATOM	7159	C	ARG	1055	-33.403	-22.325	30.911	1.00	57.48
ATOM	7160	O	ARG	1055	-33.223	-21.667	31.936	1.00	57.81
ATOM	7161	N	GLY	1056	-34.530	-22.268	30.208	1.00	57.14
ATOM	7162	CA	GLY	1056	-35.619	-21.414	30.643	1.00	56.84
ATOM	7163	C	GLY	1056	-36.179	-20.523	29.552	1.00	56.31
ATOM	7164	O	GLY	1056	-35.678	-20.507	28.427	1.00	55.89
ATOM	7165	N	ASP	1057	-37.224	-19.778	29.894	1.00	56.37
ATOM	7166	CA	ASP	1057	-37.869	-18.874	28.951	1.00	56.25
ATOM	7167	CB	ASP	1057	-39.315	-18.615	29.382	1.00	57.60
ATOM	7168	CG	ASP	1057	-40.138	-19.886	29.450	1.00	58.32
ATOM	7169	OD1	ASP	1057	-40.329	-20.525	28.394	1.00	58.27
ATOM	7170	OD2	ASP	1057	-40.589	-20.248	30.560	1.00	58.42
ATOM	7171	C	ASP	1057	-37.116	-17.552	28.868	1.00	55.73
ATOM	7172	O	ASP	1057	-36.656	-17.154	27.797	1.00	55.55
ATOM	7173	N	GLU	1058	-36.990	-16.878	30.005	1.00	54.61
ATOM	7174	CA	GLU	1058	-36.295	-15.600	30.059	1.00	53.66
ATOM	7175	CB	GLU	1058	-36.187	-15.125	31.510	1.00	54.74
ATOM	7176	CG	GLU	1058	-35.451	-13.809	31.680	1.00	56.54
ATOM	7177	CD	GLU	1058	-35.511	-13.289	33.103	1.00	57.81
ATOM	7178	OE1	GLU	1058	-36.616	-12.929	33.560	1.00	58.07
ATOM	7179	OE2	GLU	1058	-34.453	-13.247	33.767	1.00	58.77
ATOM	7180	C	GLU	1058	-34.906	-15.700	29.436	1.00	52.45
ATOM	7181	O	GLU	1058	-34.577	-14.950	28.515	1.00	52.76
ATOM	7182	N	ALA	1059	-34.095	-16.628	29.937	1.00	50.76
ATOM	7183	CA	ALA	1059	-32.741	-16.820	29.420	1.00	48.43
ATOM	7184	CB	ALA	1059	-31.995	-17.834	30.277	1.00	48.71
ATOM	7185	C	ALA	1059	-32.790	-17.290	27.969	1.00	46.48
ATOM	7186	O	ALA	1059	-31.947	-16.913	27.153	1.00	46.02
ATOM	7187	N	GLY	1060	-33.783	-18.116	27.658	1.00	44.48
ATOM	7188	CA	GLY	1060	-33.931	-18.618	26.307	1.00	42.19
ATOM	7189	C	GLY	1060	-34.145	-17.491	25.315	1.00	41.58

ATOM	7190	O	GLY	1060	-33.539	-17.480	24.245	1.00	41.81
ATOM	7191	N	ASP	1061	-35.008	-16.540	25.667	1.00	40.06
ATOM	7192	CA	ASP	1061	-35.288	-15.401	24.797	1.00	38.77
ATOM	7193	CB	ASP	1061	-36.570	-14.686	25.236	1.00	39.86
ATOM	7194	CG	ASP	1061	-37.760	-15.616	25.318	1.00	39.94
ATOM	7195	OD1	ASP	1061	-38.037	-16.323	24.328	1.00	40.73
ATOM	7196	OD2	ASP	1061	-38.422	-15.634	26.375	1.00	41.22
ATOM	7197	C	ASP	1061	-34.131	-14.407	24.837	1.00	37.48
ATOM	7198	O	ASP	1061	-33.857	-13.719	23.854	1.00	37.88
ATOM	7199	N	GLN	1062	-33.464	-14.332	25.983	1.00	35.98
ATOM	7200	CA	GLN	1062	-32.337	-13.426	26.155	1.00	34.74
ATOM	7201	CB	GLN	1062	-31.807	-13.508	27.586	1.00	35.48
ATOM	7202	CG	GLN	1062	-30.679	-12.533	27.895	1.00	36.93
ATOM	7203	CD	GLN	1062	-31.115	-11.083	27.786	1.00	38.62
ATOM	7204	OE1	GLN	1062	-32.048	-10.653	28.465	1.00	38.65
ATOM	7205	NE2	GLN	1062	-30.439	-10.320	26.933	1.00	38.92
ATOM	7206	C	GLN	1062	-31.225	-13.777	25.173	1.00	33.19
ATOM	7207	O	GLN	1062	-30.671	-12.899	24.512	1.00	31.37
ATOM	7208	N	LEU	1063	-30.904	-15.064	25.082	1.00	32.49
ATOM	7209	CA	LEU	1063	-29.861	-15.531	24.176	1.00	31.76
ATOM	7210	CB	LEU	1063	-29.584	-17.025	24.405	1.00	32.31
ATOM	7211	CG	LEU	1063	-28.900	-17.413	25.721	1.00	33.38
ATOM	7212	CD1	LEU	1063	-28.693	-18.923	25.776	1.00	34.58
ATOM	7213	CD2	LEU	1063	-27.560	-16.701	25.837	1.00	33.59
ATOM	7214	C	LEU	1063	-30.243	-15.287	22.718	1.00	31.49
ATOM	7215	O	LEU	1063	-29.410	-14.874	21.910	1.00	29.46
ATOM	7216	N	LEU	1064	-31.504	-15.544	22.385	1.00	30.95
ATOM	7217	CA	LEU	1064	-31.984	-15.334	21.024	1.00	31.20
ATOM	7218	CB	LEU	1064	-33.442	-15.792	20.899	1.00	33.16
ATOM	7219	CG	LEU	1064	-34.097	-15.755	19.513	1.00	34.91
ATOM	7220	CD1	LEU	1064	-35.286	-16.709	19.482	1.00	35.64
ATOM	7221	CD2	LEU	1064	-34.536	-14.350	19.182	1.00	34.56
ATOM	7222	C	LEU	1064	-31.865	-13.850	20.696	1.00	29.59
ATOM	7223	O	LEU	1064	-31.476	-13.474	19.589	1.00	28.93
ATOM	7224	N	SER	1065	-32.191	-13.009	21.672	1.00	27.94
ATOM	7225	CA	SER	1065	-32.106	-11.572	21.475	1.00	27.91
ATOM	7226	CB	SER	1065	-32.645	-10.830	22.697	1.00	28.13
ATOM	7227	OG	SER	1065	-32.610	-9.429	22.483	1.00	30.15
ATOM	7228	C	SER	1065	-30.662	-11.156	21.219	1.00	26.39
ATOM	7229	O	SER	1065	-30.389	-10.386	20.300	1.00	26.00
ATOM	7230	N	ASP	1066	-29.741	-11.665	22.035	1.00	25.06
ATOM	7231	CA	ASP	1066	-28.320	-11.340	21.880	1.00	24.78
ATOM	7232	CB	ASP	1066	-27.491	-11.989	22.989	1.00	25.95
ATOM	7233	CG	ASP	1066	-27.730	-11.348	24.338	1.00	28.70
ATOM	7234	OD1	ASP	1066	-27.860	-10.107	24.385	1.00	30.67
ATOM	7235	OD2	ASP	1066	-27.775	-12.077	25.351	1.00	31.26
ATOM	7236	C	ASP	1066	-27.783	-11.782	20.524	1.00	23.52
ATOM	7237	O	ASP	1066	-26.968	-11.089	19.915	1.00	23.49
ATOM	7238	N	ALA	1067	-28.235	-12.945	20.062	1.00	23.51
ATOM	7239	CA	ALA	1067	-27.813	-13.478	18.776	1.00	22.29
ATOM	7240	CB	ALA	1067	-28.450	-14.842	18.547	1.00	22.43
ATOM	7241	C	ALA	1067	-28.216	-12.516	17.665	1.00	22.46
ATOM	7242	O	ALA	1067	-27.410	-12.164	16.804	1.00	20.38
ATOM	7243	N	LEU	1068	-29.472	-12.091	17.683	1.00	23.01
ATOM	7244	CA	LEU	1068	-29.961	-11.167	16.668	1.00	22.75
ATOM	7245	CB	LEU	1068	-31.464	-10.947	16.844	1.00	22.25
ATOM	7246	CG	LEU	1068	-32.364	-12.126	16.480	1.00	23.59
ATOM	7247	CD1	LEU	1068	-33.765	-11.876	17.028	1.00	25.32
ATOM	7248	CD2	LEU	1068	-32.399	-12.310	14.959	1.00	24.63
ATOM	7249	C	LEU	1068	-29.224	-9.838	16.784	1.00	20.46
ATOM	7250	O	LEU	1068	-28.926	-9.210	15.781	1.00	20.46
ATOM	7251	N	ALA	1069	-28.928	-9.436	18.016	1.00	20.31
ATOM	7252	CA	ALA	1069	-28.234	-8.186	18.284	1.00	20.51
ATOM	7253	CB	ALA	1069	-28.237	-7.899	19.783	1.00	21.24
ATOM	7254	C	ALA	1069	-26.803	-8.201	17.757	1.00	18.78
ATOM	7255	O	ALA	1069	-26.326	-7.211	17.203	1.00	17.76
ATOM	7256	N	LEU	1070	-26.117	-9.325	17.929	1.00	19.42
ATOM	7257	CA	LEU	1070	-24.745	-9.440	17.455	1.00	18.83
ATOM	7258	CB	LEU	1070	-24.092	-10.719	18.005	1.00	18.63
ATOM	7259	CG	LEU	1070	-23.813	-10.721	19.516	1.00	17.66
ATOM	7260	CD1	LEU	1070	-23.361	-12.111	19.965	1.00	17.08
ATOM	7261	CD2	LEU	1070	-22.750	-9.689	19.849	1.00	16.40
ATOM	7262	C	LEU	1070	-24.741	-9.435	15.930	1.00	18.26
ATOM	7263	O	LEU	1070	-23.897	-8.791	15.308	1.00	16.25
ATOM	7264	N	GLU	1071	-25.692	-10.141	15.327	1.00	19.53
ATOM	7265	CA	GLU	1071	-25.789	-10.178	13.872	1.00	19.82
ATOM	7266	CB	GLU	1071	-26.907	-11.137	13.445	1.00	22.79

ATOM	7267	CG	GLU	1071	-27.158	-11.196	11.944	1.00	23.57
ATOM	7268	CD	GLU	1071	-28.293	-12.133	11.587	1.00	25.87
ATOM	7269	OE1	GLU	1071	-29.412	-11.938	12.111	1.00	26.11
ATOM	7270	OE2	GLU	1071	-28.075	-13.063	10.783	1.00	27.62
ATOM	7271	C	GLU	1071	-26.069	-8.775	13.324	1.00	19.77
ATOM	7272	O	GLU	1071	-25.424	-8.339	12.374	1.00	17.58
ATOM	7273	N	ALA	1072	-27.028	-8.071	13.922	1.00	20.66
ATOM	7274	CA	ALA	1072	-27.368	-6.721	13.467	1.00	20.74
ATOM	7275	CB	ALA	1072	-28.569	-6.182	14.245	1.00	21.28
ATOM	7276	C	ALA	1072	-26.176	-5.786	13.630	1.00	22.41
ATOM	7277	O	ALA	1072	-26.034	-4.804	12.898	1.00	23.66
ATOM	7278	N	ALA	1073	-25.319	-6.099	14.598	1.00	22.57
ATOM	7279	CA	ALA	1073	-24.130	-5.295	14.856	1.00	19.20
ATOM	7280	CB	ALA	1073	-23.572	-5.616	16.241	1.00	20.25
ATOM	7281	C	ALA	1073	-23.058	-5.530	13.792	1.00	19.63
ATOM	7282	O	ALA	1073	-22.136	-4.730	13.647	1.00	19.20
ATOM	7283	N	GLY	1074	-23.168	-6.628	13.049	1.00	17.74
ATOM	7284	CA	GLY	1074	-22.175	-6.890	12.018	1.00	17.83
ATOM	7285	C	GLY	1074	-21.454	-8.225	12.112	1.00	17.24
ATOM	7286	O	GLY	1074	-20.632	-8.545	11.250	1.00	17.98
ATOM	7287	N	ALA	1075	-21.739	-9.005	13.149	1.00	17.76
ATOM	7288	CA	ALA	1075	-21.096	-10.310	13.286	1.00	17.79
ATOM	7289	CB	ALA	1075	-21.544	-10.994	14.581	1.00	16.20
ATOM	7290	C	ALA	1075	-21.479	-11.160	12.080	1.00	18.93
ATOM	7291	O	ALA	1075	-22.659	-11.237	11.709	1.00	18.99
ATOM	7292	N	GLN	1076	-20.478	-11.790	11.468	1.00	17.65
ATOM	7293	CA	GLN	1076	-20.685	-12.625	10.283	1.00	19.07
ATOM	7294	CB	GLN	1076	-19.575	-12.363	9.258	1.00	20.10
ATOM	7295	CG	GLN	1076	-19.644	-10.967	8.666	1.00	21.35
ATOM	7296	CD	GLN	1076	-18.519	-10.664	7.700	1.00	23.80
ATOM	7297	OE1	GLN	1076	-18.528	-11.110	6.547	1.00	28.97
ATOM	7298	NE2	GLN	1076	-17.540	-9.900	8.164	1.00	19.71
ATOM	7299	C	GLN	1076	-20.757	-14.110	10.604	1.00	18.87
ATOM	7300	O	GLN	1076	-21.044	-14.933	9.731	1.00	21.05
ATOM	7301	N	LEU	1077	-20.505	-14.435	11.867	1.00	19.04
ATOM	7302	CA	LEU	1077	-20.540	-15.804	12.361	1.00	18.01
ATOM	7303	CB	LEU	1077	-19.163	-16.467	12.210	1.00	21.10
ATOM	7304	CG	LEU	1077	-18.902	-17.310	10.966	1.00	22.57
ATOM	7305	CD1	LEU	1077	-17.468	-17.821	10.996	1.00	24.38
ATOM	7306	CD2	LEU	1077	-19.878	-18.477	10.920	1.00	23.84
ATOM	7307	C	LEU	1077	-20.925	-15.799	13.831	1.00	17.60
ATOM	7308	O	LEU	1077	-20.699	-14.816	14.536	1.00	17.24
ATOM	7309	N	LEU	1078	-21.514	-16.895	14.293	1.00	16.91
ATOM	7310	CA	LEU	1078	-21.898	-17.013	15.700	1.00	17.04
ATOM	7311	CB	LEU	1078	-23.371	-16.631	15.904	1.00	18.53
ATOM	7312	CG	LEU	1078	-23.888	-16.847	17.336	1.00	19.84
ATOM	7313	CD1	LEU	1078	-23.257	-15.825	18.288	1.00	19.36
ATOM	7314	CD2	LEU	1078	-25.401	-16.719	17.362	1.00	20.91
ATOM	7315	C	LEU	1078	-21.695	-18.434	16.206	1.00	17.33
ATOM	7316	O	LEU	1078	-22.124	-19.395	15.563	1.00	18.22
ATOM	7317	N	VAL	1079	-21.037	-18.555	17.357	1.00	16.40
ATOM	7318	CA	VAL	1079	-20.806	-19.847	17.999	1.00	15.90
ATOM	7319	CB	VAL	1079	-19.364	-19.972	18.562	1.00	16.02
ATOM	7320	CG1	VAL	1079	-19.271	-21.169	19.519	1.00	15.56
ATOM	7321	CG2	VAL	1079	-18.376	-20.161	17.418	1.00	11.83
ATOM	7322	C	VAL	1079	-21.780	-19.977	19.163	1.00	18.15
ATOM	7323	O	VAL	1079	-21.915	-19.056	19.971	1.00	20.36
ATOM	7324	N	LEU	1080	-22.467	-21.113	19.225	1.00	20.11
ATOM	7325	CA	LEU	1080	-23.420	-21.401	20.296	1.00	20.37
ATOM	7326	CB	LEU	1080	-24.792	-21.775	19.730	1.00	21.80
ATOM	7327	CG	LEU	1080	-25.778	-20.659	19.401	1.00	24.35
ATOM	7328	CD1	LEU	1080	-27.092	-21.278	18.936	1.00	22.66
ATOM	7329	CD2	LEU	1080	-26.010	-19.794	20.637	1.00	23.99
ATOM	7330	C	LEU	1080	-22.876	-22.584	21.085	1.00	19.26
ATOM	7331	O	LEU	1080	-22.673	-23.659	20.526	1.00	18.71
ATOM	7332	N	GLU	1081	-22.656	-22.387	22.379	1.00	20.64
ATOM	7333	CA	GLU	1081	-22.110	-23.439	23.224	1.00	21.53
ATOM	7334	CB	GLU	1081	-20.760	-22.988	23.790	1.00	21.79
ATOM	7335	CG	GLU	1081	-20.131	-23.952	24.779	1.00	21.93
ATOM	7336	CD	GLU	1081	-18.676	-23.627	25.073	1.00	25.66
ATOM	7337	OE1	GLU	1081	-18.223	-22.519	24.712	1.00	24.72
ATOM	7338	OE2	GLU	1081	-17.989	-24.481	25.673	1.00	25.08
ATOM	7339	C	GLU	1081	-23.018	-23.897	24.364	1.00	22.06
ATOM	7340	O	GLU	1081	-23.556	-23.083	25.118	1.00	21.49
ATOM	7341	N	CYS	1082	-23.166	-25.215	24.471	1.00	23.09
ATOM	7342	CA	CYS	1082	-23.970	-25.861	25.503	1.00	23.95
ATOM	7343	CB	CYS	1082	-23.146	-26.008	26.776	1.00	25.09



ATOM	7344	SG	CYS	1082	-21.655	-26.980	26.505	1.00	27.14
ATOM	7345	C	CYS	1082	-25.276	-25.148	25.800	1.00	25.48
ATOM	7346	O	CYS	1082	-25.409	-24.431	26.795	1.00	25.29
ATOM	7347	N	VAL	1083	-26.238	-25.372	24.915	1.00	26.92
ATOM	7348	CA	VAL	1083	-27.561	-24.784	25.012	1.00	29.17
ATOM	7349	CB	VAL	1083	-27.646	-23.516	24.129	1.00	28.96
ATOM	7350	CG1	VAL	1083	-27.611	-23.900	22.655	1.00	30.28
ATOM	7351	CG2	VAL	1083	-28.898	-22.729	24.450	1.00	32.97
ATOM	7352	C	VAL	1083	-28.559	-25.830	24.508	1.00	29.38
ATOM	7353	O	VAL	1083	-28.276	-26.570	23.559	1.00	28.35
ATOM	7354	N	PRO	1084	-29.740	-25.911	25.138	1.00	30.34
ATOM	7355	CD	PRO	1084	-30.314	-25.021	26.160	1.00	29.84
ATOM	7356	CA	PRO	1084	-30.728	-26.896	24.688	1.00	30.70
ATOM	7357	CB	PRO	1084	-31.989	-26.510	25.471	1.00	30.48
ATOM	7358	CG	PRO	1084	-31.775	-25.059	25.807	1.00	31.98
ATOM	7359	C	PRO	1084	-30.928	-26.865	23.176	1.00	31.50
ATOM	7360	O	PRO	1084	-31.018	-25.794	22.572	1.00	32.64
ATOM	7361	N	VAL	1085	-30.983	-28.049	22.574	1.00	32.04
ATOM	7362	CA	VAL	1085	-31.157	-28.185	21.134	1.00	32.80
ATOM	7363	CB	VAL	1085	-31.465	-29.648	20.748	1.00	33.17
ATOM	7364	CG1	VAL	1085	-31.544	-29.780	19.239	1.00	32.51
ATOM	7365	CG2	VAL	1085	-30.392	-30.573	21.309	1.00	32.67
ATOM	7366	C	VAL	1085	-32.291	-27.305	20.632	1.00	34.32
ATOM	7367	O	VAL	1085	-32.224	-26.755	19.530	1.00	33.11
ATOM	7368	N	GLU	1086	-33.325	-27.176	21.457	1.00	36.11
ATOM	7369	CA	GLU	1086	-34.500	-26.371	21.131	1.00	38.46
ATOM	7370	CB	GLU	1086	-35.479	-26.364	22.313	1.00	40.09
ATOM	7371	CG	GLU	1086	-35.428	-27.605	23.195	1.00	42.70
ATOM	7372	CD	GLU	1086	-35.496	-28.894	22.402	1.00	44.30
ATOM	7373	OE1	GLU	1086	-36.420	-29.040	21.573	1.00	45.21
ATOM	7374	OE2	GLU	1086	-34.626	-29.764	22.614	1.00	45.27
ATOM	7375	C	GLU	1086	-34.097	-24.935	20.812	1.00	37.16
ATOM	7376	O	GLU	1086	-34.441	-24.400	19.758	1.00	37.62
ATOM	7377	N	LEU	1087	-33.370	-24.316	21.736	1.00	37.02
ATOM	7378	CA	LEU	1087	-32.928	-22.941	21.562	1.00	36.84
ATOM	7379	CB	LEU	1087	-32.192	-22.455	22.813	1.00	38.04
ATOM	7380	CG	LEU	1087	-32.583	-21.085	23.384	1.00	39.52
ATOM	7381	CD1	LEU	1087	-31.751	-20.804	24.630	1.00	40.56
ATOM	7382	CD2	LEU	1087	-32.378	-19.994	22.349	1.00	39.60
ATOM	7383	C	LEU	1087	-32.020	-22.817	20.345	1.00	36.08
ATOM	7384	O	LEU	1087	-32.141	-21.870	19.570	1.00	35.75
ATOM	7385	N	ALA	1088	-31.116	-23.778	20.173	1.00	35.37
ATOM	7386	CA	ALA	1088	-30.195	-23.757	19.038	1.00	34.84
ATOM	7387	CB	ALA	1088	-29.294	-24.989	19.066	1.00	32.98
ATOM	7388	C	ALA	1088	-30.965	-23.700	17.722	1.00	35.07
ATOM	7389	O	ALA	1088	-30.530	-23.059	16.765	1.00	35.13
ATOM	7390	N	LYS	1089	-32.112	-24.372	17.685	1.00	36.00
ATOM	7391	CA	LYS	1089	-32.952	-24.402	16.493	1.00	37.51
ATOM	7392	CB	LYS	1089	-34.133	-25.353	16.702	1.00	40.32
ATOM	7393	CG	LYS	1089	-33.741	-26.772	17.054	1.00	42.81
ATOM	7394	CD	LYS	1089	-34.966	-27.619	17.354	1.00	46.04
ATOM	7395	CE	LYS	1089	-34.575	-29.010	17.818	1.00	46.35
ATOM	7396	NZ	LYS	1089	-35.755	-29.769	18.300	1.00	47.78
ATOM	7397	C	LYS	1089	-33.485	-23.014	16.161	1.00	35.60
ATOM	7398	O	LYS	1089	-33.330	-22.536	15.039	1.00	35.12
ATOM	7399	N	ARG	1090	-34.117	-22.374	17.141	1.00	35.99
ATOM	7400	CA	ARG	1090	-34.681	-21.039	16.947	1.00	36.46
ATOM	7401	CB	ARG	1090	-35.288	-20.511	18.247	1.00	38.53
ATOM	7402	CG	ARG	1090	-36.350	-21.392	18.862	1.00	42.68
ATOM	7403	CD	ARG	1090	-37.186	-20.592	19.842	1.00	45.65
ATOM	7404	NE	ARG	1090	-36.365	-19.905	20.834	1.00	49.18
ATOM	7405	CZ	ARG	1090	-36.842	-19.046	21.730	1.00	50.27
ATOM	7406	NH1	ARG	1090	-38.137	-18.769	21.758	1.00	51.07
ATOM	7407	NH2	ARG	1090	-36.029	-18.464	22.601	1.00	51.07
ATOM	7408	C	ARG	1090	-33.639	-20.038	16.458	1.00	34.36
ATOM	7409	O	ARG	1090	-33.859	-19.334	15.472	1.00	34.30
ATOM	7410	N	ILE	1091	-32.513	-19.976	17.163	1.00	32.94
ATOM	7411	CA	ILE	1091	-31.432	-19.059	16.820	1.00	30.49
ATOM	7412	CB	ILE	1091	-30.265	-19.179	17.828	1.00	29.84
ATOM	7413	CG2	ILE	1091	-29.087	-18.304	17.382	1.00	26.75
ATOM	7414	CG1	ILE	1091	-30.749	-18.770	19.222	1.00	27.82
ATOM	7415	CD1	ILE	1091	-29.749	-19.036	20.332	1.00	28.01
ATOM	7416	C	ILE	1091	-30.904	-19.311	15.418	1.00	29.96
ATOM	7417	O	ILE	1091	-30.686	-18.374	14.650	1.00	30.26
ATOM	7418	N	THR	1092	-30.711	-20.580	15.078	1.00	30.58
ATOM	7419	CA	THR	1092	-30.193	-20.929	13.760	1.00	31.05
ATOM	7420	CB	THR	1092	-29.921	-22.433	13.645	1.00	31.25

ATOM	7421	OG1	THR	1092	-28.972	-22.827	14.648	1.00	31.53
ATOM	7422	CG2	THR	1092	-29.357	-22.760	12.269	1.00	29.03
ATOM	7423	C	THR	1092	-31.156	-20.527	12.654	1.00	31.78
ATOM	7424	O	THR	1092	-30.742	-20.039	11.602	1.00	32.76
ATOM	7425	N	GLU	1093	-32.443	-20.742	12.897	1.00	32.97
ATOM	7426	CA	GLU	1093	-33.467	-20.405	11.918	1.00	34.29
ATOM	7427	CB	GLU	1093	-34.743	-21.190	12.215	1.00	35.93
ATOM	7428	CG	GLU	1093	-34.531	-22.694	12.240	1.00	40.74
ATOM	7429	CD	GLU	1093	-35.785	-23.460	12.620	1.00	44.39
ATOM	7430	OE1	GLU	1093	-36.357	-23.178	13.698	1.00	46.36
ATOM	7431	OE2	GLU	1093	-36.193	-24.347	11.842	1.00	45.61
ATOM	7432	C	GLU	1093	-33.760	-18.909	11.913	1.00	32.84
ATOM	7433	O	GLU	1093	-34.238	-18.366	10.915	1.00	33.67
ATOM	7434	N	ALA	1094	-33.461	-18.244	13.024	1.00	32.28
ATOM	7435	CA	ALA	1094	-33.705	-16.810	13.138	1.00	30.66
ATOM	7436	CB	ALA	1094	-33.876	-16.430	14.602	1.00	31.86
ATOM	7437	C	ALA	1094	-32.604	-15.965	12.503	1.00	29.98
ATOM	7438	O	ALA	1094	-32.881	-14.912	11.927	1.00	29.52
ATOM	7439	N	LEU	1095	-31.358	-16.424	12.602	1.00	27.75
ATOM	7440	CA	LEU	1095	-30.240	-15.677	12.035	1.00	26.60
ATOM	7441	CB	LEU	1095	-28.973	-15.892	12.875	1.00	27.24
ATOM	7442	CG	LEU	1095	-28.992	-15.409	14.327	1.00	28.91
ATOM	7443	CD1	LEU	1095	-27.602	-15.587	14.941	1.00	28.85
ATOM	7444	CD2	LEU	1095	-29.400	-13.948	14.386	1.00	32.53
ATOM	7445	C	LEU	1095	-29.940	-16.024	10.581	1.00	25.13
ATOM	7446	O	LEU	1095	-30.069	-17.176	10.161	1.00	25.13
ATOM	7447	N	ALA	1096	-29.544	-15.016	9.813	1.00	23.38
ATOM	7448	CA	ALA	1096	-29.194	-15.221	8.417	1.00	24.18
ATOM	7449	CB	ALA	1096	-29.358	-13.921	7.636	1.00	26.66
ATOM	7450	C	ALA	1096	-27.742	-15.704	8.340	1.00	23.29
ATOM	7451	O	ALA	1096	-27.383	-16.473	7.446	1.00	22.71
ATOM	7452	N	ILE	1097	-26.910	-15.253	9.278	1.00	22.57
ATOM	7453	CA	ILE	1097	-25.507	-15.662	9.295	1.00	22.02
ATOM	7454	CB	ILE	1097	-24.638	-14.773	10.231	1.00	20.30
ATOM	7455	CG2	ILE	1097	-24.637	-13.339	9.735	1.00	18.65
ATOM	7456	CG1	ILE	1097	-25.141	-14.868	11.671	1.00	19.11
ATOM	7457	CD1	ILE	1097	-24.232	-14.180	12.681	1.00	16.71
ATOM	7458	C	ILE	1097	-25.392	-17.099	9.779	1.00	21.40
ATOM	7459	O	ILE	1097	-26.266	-17.594	10.489	1.00	20.96
ATOM	7460	N	PRO	1098	-24.313	-17.793	9.391	1.00	21.86
ATOM	7461	CD	PRO	1098	-23.284	-17.422	8.409	1.00	22.08
ATOM	7462	CA	PRO	1098	-24.157	-19.180	9.832	1.00	22.32
ATOM	7463	CB	PRO	1098	-23.004	-19.700	8.968	1.00	21.93
ATOM	7464	CG	PRO	1098	-22.236	-18.469	8.626	1.00	24.68
ATOM	7465	C	PRO	1098	-23.896	-19.316	11.329	1.00	22.49
ATOM	7466	O	PRO	1098	-23.160	-18.528	11.933	1.00	21.97
ATOM	7467	N	VAL	1099	-24.527	-20.317	11.930	1.00	21.40
ATOM	7468	CA	VAL	1099	-24.368	-20.569	13.351	1.00	20.38
ATOM	7469	CB	VAL	1099	-25.735	-20.667	14.048	1.00	21.59
ATOM	7470	CG1	VAL	1099	-25.543	-21.007	15.518	1.00	20.95
ATOM	7471	CG2	VAL	1099	-26.485	-19.348	13.902	1.00	20.13
ATOM	7472	C	VAL	1099	-23.593	-21.862	13.568	1.00	20.91
ATOM	7473	O	VAL	1099	-24.009	-22.929	13.119	1.00	21.10
ATOM	7474	N	ILE	1100	-22.459	-21.749	14.252	1.00	20.43
ATOM	7475	CA	ILE	1100	-21.606	-22.897	14.553	1.00	19.39
ATOM	7476	CB	ILE	1100	-20.106	-22.533	14.393	1.00	18.61
ATOM	7477	CG2	ILE	1100	-19.235	-23.709	14.814	1.00	21.73
ATOM	7478	CG1	ILE	1100	-19.807	-22.154	12.939	1.00	19.30
ATOM	7479	CD1	ILE	1100	-18.369	-21.678	12.698	1.00	18.01
ATOM	7480	C	ILE	1100	-21.862	-23.344	15.992	1.00	17.92
ATOM	7481	O	ILE	1100	-21.811	-22.541	16.925	1.00	19.15
ATOM	7482	N	GLY	1101	-22.126	-24.629	16.179	1.00	17.28
ATOM	7483	CA	GLY	1101	-22.392	-25.087	17.521	1.00	15.61
ATOM	7484	C	GLY	1101	-21.405	-26.058	18.134	1.00	16.33
ATOM	7485	O	GLY	1101	-20.607	-26.692	17.449	1.00	14.73
ATOM	7486	N	ILE	1102	-21.450	-26.126	19.457	1.00	16.82
ATOM	7487	CA	ILE	1102	-20.642	-27.055	20.228	1.00	17.43
ATOM	7488	CB	ILE	1102	-19.213	-26.493	20.587	1.00	15.75
ATOM	7489	CG2	ILE	1102	-19.297	-25.103	21.214	1.00	16.29
ATOM	7490	CG1	ILE	1102	-18.514	-27.477	21.519	1.00	17.38
ATOM	7491	CD1	ILE	1102	-17.048	-27.149	21.769	1.00	17.39
ATOM	7492	C	ILE	1102	-21.486	-27.320	21.466	1.00	16.49
ATOM	7493	O	ILE	1102	-21.652	-26.457	22.324	1.00	18.86
ATOM	7494	N	GLY	1103	-22.064	-28.515	21.525	1.00	18.98
ATOM	7495	CA	GLY	1103	-22.913	-28.857	22.649	1.00	19.60
ATOM	7496	C	GLY	1103	-24.275	-28.209	22.470	1.00	21.48
ATOM	7497	O	GLY	1103	-24.969	-27.921	23.443	1.00	22.27

ATOM	7498	N	ALA	1104	-24.652	-27.972	21.217	1.00	22.82
ATOM	7499	CA	ALA	1104	-25.935	-27.353	20.908	1.00	25.45
ATOM	7500	CB	ALA	1104	-25.716	-25.988	20.259	1.00	25.68
ATOM	7501	C	ALA	1104	-26.771	-28.236	19.987	1.00	25.66
ATOM	7502	O	ALA	1104	-27.830	-27.820	19.515	1.00	26.77
ATOM	7503	N	GLY	1105	-26.293	-29.448	19.722	1.00	26.62
ATOM	7504	CA	GLY	1105	-27.026	-30.351	18.852	1.00	26.39
ATOM	7505	C	GLY	1105	-26.597	-30.240	17.400	1.00	26.35
ATOM	7506	O	GLY	1105	-25.665	-29.504	17.087	1.00	27.27
ATOM	7507	N	ASN	1106	-27.276	-30.966	16.514	1.00	24.67
ATOM	7508	CA	ASN	1106	-26.946	-30.947	15.095	1.00	25.28
ATOM	7509	CB	ASN	1106	-27.003	-32.363	14.513	1.00	27.03
ATOM	7510	CG	ASN	1106	-28.406	-32.957	14.543	1.00	28.79
ATOM	7511	OD1	ASN	1106	-28.706	-33.901	13.810	1.00	30.36
ATOM	7512	ND2	ASN	1106	-29.267	-32.414	15.398	1.00	26.73
ATOM	7513	C	ASN	1106	-27.851	-30.036	14.273	1.00	25.16
ATOM	7514	O	ASN	1106	-27.889	-30.133	13.046	1.00	26.21
ATOM	7515	N	VAL	1107	-28.563	-29.143	14.949	1.00	26.94
ATOM	7516	CA	VAL	1107	-29.476	-28.217	14.287	1.00	27.66
ATOM	7517	CB	VAL	1107	-30.583	-27.753	15.255	1.00	29.34
ATOM	7518	CG1	VAL	1107	-31.608	-26.904	14.507	1.00	33.27
ATOM	7519	CG2	VAL	1107	-31.250	-28.962	15.898	1.00	30.08
ATOM	7520	C	VAL	1107	-28.751	-26.984	13.761	1.00	27.29
ATOM	7521	O	VAL	1107	-29.274	-26.255	12.915	1.00	26.10
ATOM	7522	N	THR	1108	-27.547	-26.746	14.267	1.00	24.64
ATOM	7523	CA	THR	1108	-26.769	-25.592	13.840	1.00	22.37
ATOM	7524	CB	THR	1108	-25.594	-25.337	14.805	1.00	21.49
ATOM	7525	OG1	THR	1108	-24.814	-26.532	14.944	1.00	20.03
ATOM	7526	CG2	THR	1108	-26.116	-24.918	16.171	1.00	20.67
ATOM	7527	C	THR	1108	-26.242	-25.787	12.424	1.00	22.32
ATOM	7528	O	THR	1108	-26.276	-26.891	11.888	1.00	23.83
ATOM	7529	N	ASP	1109	-25.764	-24.705	11.820	1.00	21.15
ATOM	7530	CA	ASP	1109	-25.241	-24.746	10.461	1.00	21.07
ATOM	7531	CB	ASP	1109	-25.122	-23.326	9.918	1.00	22.92
ATOM	7532	CG	ASP	1109	-26.450	-22.605	9.904	1.00	25.19
ATOM	7533	OD1	ASP	1109	-27.371	-23.091	9.220	1.00	22.36
ATOM	7534	OD2	ASP	1109	-26.577	-21.565	10.589	1.00	26.54
ATOM	7535	C	ASP	1109	-23.889	-25.432	10.389	1.00	20.97
ATOM	7536	O	ASP	1109	-23.511	-25.975	9.353	1.00	20.53
ATOM	7537	N	GLY	1110	-23.161	-25.396	11.498	1.00	21.29
ATOM	7538	CA	GLY	1110	-21.855	-26.020	11.541	1.00	19.83
ATOM	7539	C	GLY	1110	-21.532	-26.555	12.920	1.00	18.45
ATOM	7540	O	GLY	1110	-22.321	-26.421	13.856	1.00	16.61
ATOM	7541	N	GLN	1111	-20.360	-27.169	13.046	1.00	18.75
ATOM	7542	CA	GLN	1111	-19.920	-27.725	14.315	1.00	18.97
ATOM	7543	CB	GLN	1111	-20.030	-29.253	14.300	1.00	20.40
ATOM	7544	CG	GLN	1111	-21.434	-29.822	14.149	1.00	21.52
ATOM	7545	CD	GLN	1111	-22.353	-29.426	15.281	1.00	22.47
ATOM	7546	OE1	GLN	1111	-21.950	-29.393	16.448	1.00	25.39
ATOM	7547	NE2	GLN	1111	-23.607	-29.136	14.946	1.00	23.89
ATOM	7548	C	GLN	1111	-18.462	-27.364	14.596	1.00	17.61
ATOM	7549	O	GLN	1111	-17.697	-27.072	13.679	1.00	16.60
ATOM	7550	N	ILE	1112	-18.089	-27.389	15.871	1.00	17.79
ATOM	7551	CA	ILE	1112	-16.716	-27.131	16.276	1.00	18.54
ATOM	7552	CB	ILE	1112	-16.454	-25.623	16.531	1.00	18.72
ATOM	7553	CG2	ILE	1112	-17.191	-25.146	17.786	1.00	18.50
ATOM	7554	CG1	ILE	1112	-14.945	-25.390	16.671	1.00	18.93
ATOM	7555	CD1	ILE	1112	-14.535	-23.906	16.715	1.00	20.59
ATOM	7556	C	ILE	1112	-16.417	-27.941	17.540	1.00	21.11
ATOM	7557	O	ILE	1112	-17.319	-28.264	18.321	1.00	20.41
ATOM	7558	N	LEU	1113	-15.148	-28.288	17.720	1.00	22.35
ATOM	7559	CA	LEU	1113	-14.726	-29.054	18.880	1.00	23.98
ATOM	7560	CB	LEU	1113	-15.130	-30.515	18.700	1.00	28.74
ATOM	7561	CG	LEU	1113	-15.427	-31.304	19.980	1.00	32.72
ATOM	7562	CD1	LEU	1113	-16.778	-30.878	20.556	1.00	32.53
ATOM	7563	CD2	LEU	1113	-15.441	-32.784	19.648	1.00	35.33
ATOM	7564	C	LEU	1113	-13.212	-28.947	18.990	1.00	23.34
ATOM	7565	O	LEU	1113	-12.534	-28.716	17.983	1.00	22.61
ATOM	7566	N	VAL	1114	-12.687	-29.104	20.205	1.00	21.36
ATOM	7567	CA	VAL	1114	-11.246	-29.044	20.440	1.00	19.62
ATOM	7568	CB	VAL	1114	-10.928	-28.996	21.966	1.00	20.48
ATOM	7569	CG1	VAL	1114	-9.434	-28.834	22.187	1.00	20.97
ATOM	7570	CG2	VAL	1114	-11.702	-27.870	22.620	1.00	20.82
ATOM	7571	C	VAL	1114	-10.628	-30.304	19.851	1.00	18.23
ATOM	7572	O	VAL	1114	-11.017	-31.419	20.210	1.00	18.70
ATOM	7573	N	MET	1115	-9.676	-30.137	18.943	1.00	16.13
ATOM	7574	CA	MET	1115	-9.041	-31.287	18.305	1.00	14.70

ATOM	7575	CB	MET	1115	-7.900	-30.830	17.390	1.00	14.14
ATOM	7576	CG	MET	1115	-6.823	-30.025	18.095	1.00	15.65
ATOM	7577	SD	MET	1115	-5.242	-30.356	17.297	1.00	13.45
ATOM	7578	CE	MET	1115	-4.722	-31.861	18.197	1.00	11.23
ATOM	7579	C	MET	1115	-8.492	-32.315	19.287	1.00	13.25
ATOM	7580	O	MET	1115	-8.533	-33.510	19.019	1.00	16.95
ATOM	7581	N	HIS	1116	-7.969	-31.866	20.421	1.00	12.84
ATOM	7582	CA	HIS	1116	-7.414	-32.828	21.377	1.00	14.12
ATOM	7583	CB	HIS	1116	-6.724	-32.107	22.521	1.00	13.42
ATOM	7584	CG	HIS	1116	-5.516	-31.336	22.084	1.00	14.34
ATOM	7585	CD2	HIS	1116	-5.403	-30.121	21.494	1.00	12.56
ATOM	7586	ND1	HIS	1116	-4.237	-31.839	22.165	1.00	14.51
ATOM	7587	CE1	HIS	1116	-3.384	-30.971	21.646	1.00	12.60
ATOM	7588	NE2	HIS	1116	-4.067	-29.919	21.230	1.00	19.44
ATOM	7589	C	HIS	1116	-8.476	-33.784	21.920	1.00	14.04
ATOM	7590	O	HIS	1116	-8.168	-34.939	22.232	1.00	16.57
ATOM	7591	N	ASP	1117	-9.717	-33.318	22.041	1.00	12.82
ATOM	7592	CA	ASP	1117	-10.794	-34.176	22.536	1.00	15.57
ATOM	7593	CB	ASP	1117	-12.014	-33.359	22.984	1.00	15.67
ATOM	7594	CG	ASP	1117	-11.741	-32.484	24.179	1.00	15.82
ATOM	7595	OD1	ASP	1117	-10.803	-32.772	24.947	1.00	15.40
ATOM	7596	OD2	ASP	1117	-12.486	-31.500	24.364	1.00	16.01
ATOM	7597	C	ASP	1117	-11.256	-35.108	21.424	1.00	17.95
ATOM	7598	O	ASP	1117	-11.438	-36.306	21.633	1.00	18.83
ATOM	7599	N	ALA	1118	-11.442	-34.533	20.237	1.00	18.76
ATOM	7600	CA	ALA	1118	-11.927	-35.267	19.073	1.00	20.93
ATOM	7601	CB	ALA	1118	-12.291	-34.286	17.965	1.00	21.95
ATOM	7602	C	ALA	1118	-10.983	-36.323	18.525	1.00	22.38
ATOM	7603	O	ALA	1118	-11.420	-37.225	17.815	1.00	23.45
ATOM	7604	N	PHE	1119	-9.698	-36.218	18.846	1.00	23.93
ATOM	7605	CA	PHE	1119	-8.739	-37.179	18.340	1.00	27.36
ATOM	7606	CB	PHE	1119	-7.670	-36.470	17.521	1.00	32.16
ATOM	7607	CG	PHE	1119	-8.223	-35.714	16.375	1.00	35.71
ATOM	7608	CD1	PHE	1119	-9.075	-36.337	15.474	1.00	37.69
ATOM	7609	CD2	PHE	1119	-7.922	-34.371	16.203	1.00	38.44
ATOM	7610	CE1	PHE	1119	-9.620	-35.633	14.420	1.00	40.51
ATOM	7611	CE2	PHE	1119	-8.463	-33.660	15.152	1.00	39.76
ATOM	7612	CZ	PHE	1119	-9.314	-34.287	14.256	1.00	41.23
ATOM	7613	C	PHE	1119	-8.086	-38.050	19.379	1.00	26.58
ATOM	7614	O	PHE	1119	-6.942	-38.460	19.212	1.00	30.89
ATOM	7615	N	GLY	1120	-8.817	-38.318	20.454	1.00	24.48
ATOM	7616	CA	GLY	1120	-8.327	-39.186	21.505	1.00	24.13
ATOM	7617	C	GLY	1120	-7.005	-38.851	22.160	1.00	23.63
ATOM	7618	O	GLY	1120	-6.283	-39.758	22.581	1.00	22.16
ATOM	7619	N	ILE	1121	-6.680	-37.565	22.252	1.00	20.46
ATOM	7620	CA	ILE	1121	-5.441	-37.145	22.900	1.00	19.00
ATOM	7621	CB	ILE	1121	-4.836	-35.889	22.225	1.00	16.75
ATOM	7622	CG2	ILE	1121	-3.614	-35.423	22.995	1.00	16.32
ATOM	7623	CG1	ILE	1121	-4.456	-36.203	20.777	1.00	15.62
ATOM	7624	CD1	ILE	1121	-4.238	-34.960	19.921	1.00	14.00
ATOM	7625	C	ILE	1121	-5.758	-36.832	24.359	1.00	19.57
ATOM	7626	O	ILE	1121	-5.100	-37.335	25.265	1.00	17.67
ATOM	7627	N	THR	1122	-6.774	-36.009	24.591	1.00	20.23
ATOM	7628	CA	THR	1122	-7.148	-35.671	25.958	1.00	23.81
ATOM	7629	CB	THR	1122	-8.387	-34.773	25.979	1.00	24.49
ATOM	7630	OG1	THR	1122	-9.425	-35.373	25.195	1.00	28.23
ATOM	7631	CG2	THR	1122	-8.053	-33.409	25.402	1.00	18.95
ATOM	7632	C	THR	1122	-7.443	-36.940	26.751	1.00	26.71
ATOM	7633	O	THR	1122	-8.052	-37.872	26.228	1.00	26.64
ATOM	7634	N	GLY	1123	-7.002	-36.962	28.005	1.00	30.43
ATOM	7635	CA	GLY	1123	-7.207	-38.113	28.870	1.00	37.27
ATOM	7636	C	GLY	1123	-8.332	-39.059	28.484	1.00	39.65
ATOM	7637	O	GLY	1123	-8.205	-39.847	27.544	1.00	41.64
ATOM	7638	N	GLY	1124	-9.441	-38.986	29.211	1.00	40.46
ATOM	7639	CA	GLY	1124	-10.569	-39.852	28.920	1.00	38.97
ATOM	7640	C	GLY	1124	-11.873	-39.208	29.340	1.00	37.18
ATOM	7641	O	GLY	1124	-12.953	-39.759	29.128	1.00	38.03
ATOM	7642	N	HIS	1125	-11.763	-38.026	29.932	1.00	36.46
ATOM	7643	CA	HIS	1125	-12.924	-37.290	30.399	1.00	35.97
ATOM	7644	CB	HIS	1125	-12.653	-36.726	31.792	1.00	37.38
ATOM	7645	CG	HIS	1125	-12.325	-37.771	32.812	1.00	39.81
ATOM	7646	CD2	HIS	1125	-11.211	-37.973	33.554	1.00	40.42
ATOM	7647	ND1	HIS	1125	-13.207	-38.769	33.164	1.00	40.29
ATOM	7648	CE1	HIS	1125	-12.651	-39.541	34.081	1.00	40.40
ATOM	7649	NE2	HIS	1125	-11.440	-39.080	34.335	1.00	41.75
ATOM	7650	C	HIS	1125	-13.291	-36.152	29.456	1.00	34.78
ATOM	7651	O	HIS	1125	-13.410	-35.000	29.880	1.00	36.44

ATOM	7652	N	ILE	1126	-13.466	-36.466	28.178	1.00	31.25
ATOM	7653	CA	ILE	1126	-13.835	-35.435	27.215	1.00	28.48
ATOM	7654	CB	ILE	1126	-13.804	-35.963	25.767	1.00	26.91
ATOM	7655	CG2	ILE	1126	-12.394	-36.360	25.388	1.00	26.98
ATOM	7656	CG1	ILE	1126	-14.768	-37.138	25.614	1.00	25.19
ATOM	7657	CD1	ILE	1126	-14.926	-37.612	24.194	1.00	22.08
ATOM	7658	C	ILE	1126	-15.249	-34.961	27.540	1.00	28.29
ATOM	7659	O	ILE	1126	-16.044	-35.702	28.122	1.00	27.48
ATOM	7660	N	PRO	1127	-15.586	-33.719	27.168	1.00	27.02
ATOM	7661	CD	PRO	1127	-14.838	-32.750	26.350	1.00	26.06
ATOM	7662	CA	PRO	1127	-16.936	-33.232	27.470	1.00	27.27
ATOM	7663	CB	PRO	1127	-16.946	-31.831	26.853	1.00	27.40
ATOM	7664	CG	PRO	1127	-15.944	-31.927	25.749	1.00	29.05
ATOM	7665	C	PRO	1127	-18.045	-34.136	26.925	1.00	27.42
ATOM	7666	O	PRO	1127	-17.839	-34.877	25.962	1.00	25.23
ATOM	7667	N	LYS	1128	-19.213	-34.081	27.559	1.00	28.67
ATOM	7668	CA	LYS	1128	-20.354	-34.895	27.145	1.00	29.40
ATOM	7669	CB	LYS	1128	-21.571	-34.609	28.033	1.00	32.06
ATOM	7670	CG	LYS	1128	-21.569	-35.326	29.376	1.00	37.86
ATOM	7671	CD	LYS	1128	-20.410	-34.884	30.254	1.00	41.77
ATOM	7672	CE	LYS	1128	-20.424	-35.614	31.586	1.00	42.92
ATOM	7673	NZ	LYS	1128	-19.313	-35.170	32.465	1.00	45.73
ATOM	7674	C	LYS	1128	-20.746	-34.674	25.691	1.00	28.13
ATOM	7675	O	LYS	1128	-21.216	-35.595	25.020	1.00	28.71
ATOM	7676	N	PHE	1129	-20.549	-33.452	25.208	1.00	25.91
ATOM	7677	CA	PHE	1129	-20.902	-33.098	23.834	1.00	24.94
ATOM	7678	CB	PHE	1129	-21.220	-31.605	23.761	1.00	24.88
ATOM	7679	CG	PHE	1129	-20.113	-30.717	24.268	1.00	25.53
ATOM	7680	CD1	PHE	1129	-18.967	-30.501	23.508	1.00	25.50
ATOM	7681	CD2	PHE	1129	-20.218	-30.098	25.508	1.00	26.10
ATOM	7682	CE1	PHE	1129	-17.938	-29.678	23.976	1.00	24.44
ATOM	7683	CE2	PHE	1129	-19.196	-29.272	25.989	1.00	28.35
ATOM	7684	CZ	PHE	1129	-18.055	-29.062	25.219	1.00	25.02
ATOM	7685	C	PHE	1129	-19.830	-33.444	22.809	1.00	24.51
ATOM	7686	O	PHE	1129	-20.017	-33.241	21.608	1.00	25.21
ATOM	7687	N	ALA	1130	-18.711	-33.975	23.285	1.00	22.79
ATOM	7688	CA	ALA	1130	-17.611	-34.322	22.400	1.00	22.40
ATOM	7689	CB	ALA	1130	-16.285	-33.933	23.047	1.00	22.61
ATOM	7690	C	ALA	1130	-17.587	-35.793	22.030	1.00	22.33
ATOM	7691	O	ALA	1130	-18.222	-36.627	22.674	1.00	23.47
ATOM	7692	N	LYS	1131	-16.824	-36.105	20.992	1.00	21.42
ATOM	7693	CA	LYS	1131	-16.699	-37.473	20.534	1.00	21.01
ATOM	7694	CB	LYS	1131	-17.667	-37.723	19.374	1.00	21.85
ATOM	7695	CG	LYS	1131	-17.613	-39.131	18.807	1.00	25.99
ATOM	7696	CD	LYS	1131	-18.660	-39.339	17.722	1.00	27.36
ATOM	7697	CE	LYS	1131	-18.521	-40.719	17.096	1.00	28.45
ATOM	7698	NZ	LYS	1131	-19.590	-41.000	16.100	1.00	30.79
ATOM	7699	C	LYS	1131	-15.272	-37.770	20.099	1.00	20.50
ATOM	7700	O	LYS	1131	-14.615	-36.946	19.456	1.00	19.85
ATOM	7701	N	ASN	1132	-14.788	-38.946	20.475	1.00	18.18
ATOM	7702	CA	ASN	1132	-13.450	-39.373	20.100	1.00	19.09
ATOM	7703	CB	ASN	1132	-12.860	-40.286	21.178	1.00	18.83
ATOM	7704	CG	ASN	1132	-11.520	-40.864	20.775	1.00	18.02
ATOM	7705	OD1	ASN	1132	-11.079	-40.694	19.642	1.00	17.99
ATOM	7706	ND2	ASN	1132	-10.872	-41.557	21.696	1.00	17.64
ATOM	7707	C	ASN	1132	-13.563	-40.141	18.786	1.00	18.64
ATOM	7708	O	ASN	1132	-13.884	-41.332	18.781	1.00	19.00
ATOM	7709	N	PHE	1133	-13.296	-39.460	17.678	1.00	18.32
ATOM	7710	CA	PHE	1133	-13.376	-40.079	16.361	1.00	18.77
ATOM	7711	CB	PHE	1133	-13.485	-39.008	15.268	1.00	19.12
ATOM	7712	CG	PHE	1133	-14.774	-38.242	15.297	1.00	19.88
ATOM	7713	CD1	PHE	1133	-14.925	-37.142	16.127	1.00	20.42
ATOM	7714	CD2	PHE	1133	-15.858	-38.656	14.531	1.00	21.73
ATOM	7715	CE1	PHE	1133	-16.144	-36.453	16.200	1.00	22.12
ATOM	7716	CE2	PHE	1133	-17.086	-37.978	14.592	1.00	22.46
ATOM	7717	CZ	PHE	1133	-17.225	-36.879	15.431	1.00	21.23
ATOM	7718	C	PHE	1133	-12.208	-40.999	16.036	1.00	18.83
ATOM	7719	O	PHE	1133	-12.314	-41.836	15.144	1.00	19.05
ATOM	7720	N	LEU	1134	-11.094	-40.849	16.749	1.00	17.75
ATOM	7721	CA	LEU	1134	-9.920	-41.686	16.488	1.00	18.27
ATOM	7722	CB	LEU	1134	-8.691	-41.149	17.230	1.00	17.93
ATOM	7723	CG	LEU	1134	-7.395	-41.958	17.089	1.00	19.52
ATOM	7724	CD1	LEU	1134	-6.983	-41.987	15.625	1.00	18.91
ATOM	7725	CD2	LEU	1134	-6.271	-41.335	17.936	1.00	16.96
ATOM	7726	C	LEU	1134	-10.170	-43.126	16.908	1.00	19.68
ATOM	7727	O	LEU	1134	-9.860	-44.059	16.167	1.00	17.88
ATOM	7728	N	ALA	1135	-10.727	-43.297	18.101	1.00	22.36

ATOM	7729	CA	ALA	1135	-11.027	-44.623	18.617	1.00	27.76
ATOM	7730	CB	ALA	1135	-11.775	-44.513	19.934	1.00	26.50
ATOM	7731	C	ALA	1135	-11.867	-45.387	17.603	1.00	32.49
ATOM	7732	O	ALA	1135	-11.683	-46.590	17.403	1.00	33.61
ATOM	7733	N	GLU	1136	-12.785	-44.668	16.964	1.00	36.50
ATOM	7734	CA	GLU	1136	-13.676	-45.240	15.963	1.00	40.36
ATOM	7735	CB	GLU	1136	-14.606	-44.158	15.403	1.00	43.73
ATOM	7736	CG	GLU	1136	-15.434	-43.403	16.441	1.00	48.10
ATOM	7737	CD	GLU	1136	-16.536	-44.250	17.054	1.00	50.51
ATOM	7738	OE1	GLU	1136	-16.222	-45.167	17.846	1.00	51.66
ATOM	7739	OE2	GLU	1136	-17.719	-44.002	16.735	1.00	51.42
ATOM	7740	C	GLU	1136	-12.865	-45.831	14.820	1.00	41.02
ATOM	7741	O	GLU	1136	-12.942	-47.026	14.544	1.00	42.71
ATOM	7742	N	THR	1137	-12.091	-44.979	14.155	1.00	39.55
ATOM	7743	CA	THR	1137	-11.273	-45.406	13.033	1.00	38.43
ATOM	7744	CB	THR	1137	-10.911	-44.218	12.124	1.00	39.66
ATOM	7745	OG1	THR	1137	-9.779	-44.569	11.313	1.00	41.87
ATOM	7746	CG2	THR	1137	-10.595	-42.973	12.953	1.00	37.36
ATOM	7747	C	THR	1137	-9.993	-46.105	13.474	1.00	37.92
ATOM	7748	O	THR	1137	-9.965	-47.326	13.641	1.00	40.29
ATOM	7749	N	GLY	1138	-8.932	-45.333	13.659	1.00	33.87
ATOM	7750	CA	GLY	1138	-7.669	-45.905	14.084	1.00	31.20
ATOM	7751	C	GLY	1138	-6.522	-45.066	13.574	1.00	29.12
ATOM	7752	O	GLY	1138	-5.366	-45.257	13.951	1.00	27.41
ATOM	7753	N	ASP	1139	-6.865	-44.119	12.711	1.00	25.34
ATOM	7754	CA	ASP	1139	-5.893	-43.224	12.105	1.00	23.78
ATOM	7755	CB	ASP	1139	-5.746	-43.614	10.635	1.00	27.59
ATOM	7756	CG	ASP	1139	-5.008	-42.595	9.841	1.00	30.02
ATOM	7757	OD1	ASP	1139	-5.661	-41.880	9.048	1.00	26.93
ATOM	7758	OD2	ASP	1139	-3.776	-42.508	10.021	1.00	33.99
ATOM	7759	C	ASP	1139	-6.398	-41.781	12.260	1.00	19.81
ATOM	7760	O	ASP	1139	-7.592	-41.536	12.137	1.00	17.74
ATOM	7761	N	ILE	1140	-5.505	-40.832	12.548	1.00	18.99
ATOM	7762	CA	ILE	1140	-5.937	-39.445	12.737	1.00	16.56
ATOM	7763	CB	ILE	1140	-4.777	-38.540	13.260	1.00	15.40
ATOM	7764	CG2	ILE	1140	-5.216	-37.074	13.303	1.00	14.63
ATOM	7765	CG1	ILE	1140	-4.378	-38.987	14.673	1.00	14.66
ATOM	7766	CD1	ILE	1140	-3.217	-38.193	15.276	1.00	14.86
ATOM	7767	C	ILE	1140	-6.576	-38.792	11.507	1.00	15.51
ATOM	7768	O	ILE	1140	-7.594	-38.099	11.627	1.00	15.94
ATOM	7769	N	ARG	1141	-6.006	-39.003	10.325	1.00	15.97
ATOM	7770	CA	ARG	1141	-6.596	-38.411	9.129	1.00	17.73
ATOM	7771	CB	ARG	1141	-5.678	-38.608	7.916	1.00	18.46
ATOM	7772	CG	ARG	1141	-4.473	-37.682	7.944	1.00	20.14
ATOM	7773	CD	ARG	1141	-3.493	-37.933	6.816	1.00	19.99
ATOM	7774	NE	ARG	1141	-2.379	-36.984	6.875	1.00	21.20
ATOM	7775	CZ	ARG	1141	-1.465	-36.945	7.843	1.00	21.99
ATOM	7776	NH1	ARG	1141	-1.511	-37.805	8.851	1.00	20.45
ATOM	7777	NH2	ARG	1141	-0.497	-36.042	7.804	1.00	23.21
ATOM	7778	C	ARG	1141	-7.970	-39.026	8.885	1.00	17.66
ATOM	7779	O	ARG	1141	-8.910	-38.330	8.484	1.00	16.58
ATOM	7780	N	ALA	1142	-8.096	-40.325	9.146	1.00	17.72
ATOM	7781	CA	ALA	1142	-9.377	-41.004	8.963	1.00	17.43
ATOM	7782	CB	ALA	1142	-9.208	-42.515	9.140	1.00	19.12
ATOM	7783	C	ALA	1142	-10.395	-40.471	9.962	1.00	19.39
ATOM	7784	O	ALA	1142	-11.594	-40.372	9.663	1.00	18.01
ATOM	7785	N	ALA	1143	-9.925	-40.132	11.158	1.00	17.42
ATOM	7786	CA	ALA	1143	-10.824	-39.600	12.177	1.00	18.14
ATOM	7787	CB	ALA	1143	-10.087	-39.468	13.510	1.00	17.85
ATOM	7788	C	ALA	1143	-11.350	-38.240	11.716	1.00	16.90
ATOM	7789	O	ALA	1143	-12.525	-37.921	11.900	1.00	16.07
ATOM	7790	N	VAL	1144	-10.464	-37.449	11.115	1.00	16.80
ATOM	7791	CA	VAL	1144	-10.826	-36.135	10.603	1.00	17.64
ATOM	7792	CB	VAL	1144	-9.604	-35.412	9.989	1.00	17.57
ATOM	7793	CG1	VAL	1144	-10.050	-34.114	9.326	1.00	15.63
ATOM	7794	CG2	VAL	1144	-8.561	-35.116	11.078	1.00	15.39
ATOM	7795	C	VAL	1144	-11.900	-36.290	9.528	1.00	18.77
ATOM	7796	O	VAL	1144	-12.928	-35.615	9.560	1.00	17.83
ATOM	7797	N	ARG	1145	-11.656	-37.181	8.575	1.00	19.43
ATOM	7798	CA	ARG	1145	-12.619	-37.408	7.507	1.00	21.72
ATOM	7799	CB	ARG	1145	-12.079	-38.435	6.514	1.00	22.86
ATOM	7800	CG	ARG	1145	-10.907	-37.920	5.690	1.00	23.87
ATOM	7801	CD	ARG	1145	-10.570	-38.881	4.565	1.00	26.94
ATOM	7802	NE	ARG	1145	-10.060	-40.162	5.055	1.00	27.22
ATOM	7803	CZ	ARG	1145	-8.771	-40.448	5.207	1.00	26.31
ATOM	7804	NH1	ARG	1145	-7.846	-39.544	4.909	1.00	25.59
ATOM	7805	NH2	ARG	1145	-8.407	-41.646	5.639	1.00	27.26

ATOM	7806	C	ARG	1145	-13.965	-37.865	8.050	1.00	22.32
ATOM	7807	O	ARG	1145	-15.010	-37.470	7.531	1.00	22.86
ATOM	7808	N	GLN	1146	-13.941	-38.685	9.098	1.00	21.32
ATOM	7809	CA	GLN	1146	-15.171	-39.190	9.701	1.00	22.69
ATOM	7810	CB	GLN	1146	-14.855	-40.318	10.691	1.00	24.27
ATOM	7811	CG	GLN	1146	-16.081	-41.095	11.161	1.00	29.43
ATOM	7812	CD	GLN	1146	-15.732	-42.213	12.132	1.00	34.61
ATOM	7813	OE1	GLN	1146	-14.892	-43.067	11.839	1.00	36.88
ATOM	7814	NE2	GLN	1146	-16.382	-42.216	13.293	1.00	35.93
ATOM	7815	C	GLN	1146	-15.918	-38.077	10.423	1.00	22.56
ATOM	7816	O	GLN	1146	-17.152	-38.048	10.448	1.00	19.62
ATOM	7817	N	TYR	1147	-15.167	-37.165	11.027	1.00	20.38
ATOM	7818	CA	TYR	1147	-15.774	-36.051	11.739	1.00	22.67
ATOM	7819	CB	TYR	1147	-14.690	-35.256	12.478	1.00	20.90
ATOM	7820	CG	TYR	1147	-15.136	-33.900	12.979	1.00	21.86
ATOM	7821	CD1	TYR	1147	-16.312	-33.756	13.721	1.00	20.32
ATOM	7822	CE1	TYR	1147	-16.718	-32.511	14.186	1.00	21.50
ATOM	7823	CD2	TYR	1147	-14.374	-32.759	12.719	1.00	20.91
ATOM	7824	CE2	TYR	1147	-14.769	-31.509	13.180	1.00	20.76
ATOM	7825	CZ	TYR	1147	-15.939	-31.389	13.910	1.00	22.56
ATOM	7826	OH	TYR	1147	-16.345	-30.152	14.358	1.00	21.72
ATOM	7827	C	TYR	1147	-16.509	-35.161	10.737	1.00	22.11
ATOM	7828	O	TYR	1147	-17.643	-34.752	10.969	1.00	23.56
ATOM	7829	N	MET	1148	-15.855	-34.881	9.618	1.00	22.47
ATOM	7830	CA	MET	1148	-16.441	-34.051	8.580	1.00	23.31
ATOM	7831	CB	MET	1148	-15.427	-33.835	7.459	1.00	24.14
ATOM	7832	CG	MET	1148	-14.182	-33.075	7.879	1.00	25.93
ATOM	7833	SD	MET	1148	-12.910	-33.130	6.619	1.00	28.97
ATOM	7834	CE	MET	1148	-13.585	-32.034	5.386	1.00	28.81
ATOM	7835	C	MET	1148	-17.701	-34.704	8.012	1.00	25.12
ATOM	7836	O	MET	1148	-18.743	-34.055	7.868	1.00	24.49
ATOM	7837	N	ALA	1149	-17.599	-35.992	7.700	1.00	24.17
ATOM	7838	CA	ALA	1149	-18.718	-36.747	7.133	1.00	24.28
ATOM	7839	CB	ALA	1149	-18.254	-38.152	6.750	1.00	23.46
ATOM	7840	C	ALA	1149	-19.914	-36.828	8.079	1.00	24.06
ATOM	7841	O	ALA	1149	-21.058	-36.613	7.669	1.00	23.40
ATOM	7842	N	GLU	1150	-19.657	-37.135	9.346	1.00	24.16
ATOM	7843	CA	GLU	1150	-20.739	-37.235	10.319	1.00	26.28
ATOM	7844	CB	GLU	1150	-20.228	-37.828	11.634	1.00	27.57
ATOM	7845	CG	GLU	1150	-20.156	-39.347	11.608	1.00	28.54
ATOM	7846	CD	GLU	1150	-19.614	-39.939	12.890	1.00	28.17
ATOM	7847	OE1	GLU	1150	-20.027	-39.506	13.984	1.00	28.42
ATOM	7848	OE2	GLU	1150	-18.778	-40.857	12.796	1.00	33.92
ATOM	7849	C	GLU	1150	-21.421	-35.900	10.581	1.00	26.66
ATOM	7850	O	GLU	1150	-22.597	-35.859	10.949	1.00	27.42
ATOM	7851	N	VAL	1151	-20.685	-34.808	10.408	1.00	27.27
ATOM	7852	CA	VAL	1151	-21.263	-33.486	10.617	1.00	27.27
ATOM	7853	CB	VAL	1151	-20.179	-32.384	10.668	1.00	27.12
ATOM	7854	CG1	VAL	1151	-20.835	-31.005	10.609	1.00	23.63
ATOM	7855	CG2	VAL	1151	-19.372	-32.512	11.945	1.00	23.64
ATOM	7856	C	VAL	1151	-22.242	-33.154	9.495	1.00	28.77
ATOM	7857	O	VAL	1151	-23.384	-32.777	9.749	1.00	28.71
ATOM	7858	N	GLU	1152	-21.792	-33.304	8.256	1.00	30.65
ATOM	7859	CA	GLU	1152	-22.637	-32.998	7.112	1.00	33.92
ATOM	7860	CB	GLU	1152	-21.836	-33.117	5.813	1.00	34.31
ATOM	7861	CG	GLU	1152	-22.641	-32.774	4.567	1.00	38.13
ATOM	7862	CD	GLU	1152	-21.775	-32.545	3.345	1.00	39.92
ATOM	7863	OE1	GLU	1152	-22.337	-32.401	2.240	1.00	43.20
ATOM	7864	OE2	GLU	1152	-20.535	-32.498	3.485	1.00	41.00
ATOM	7865	C	GLU	1152	-23.867	-33.895	7.051	1.00	34.76
ATOM	7866	O	GLU	1152	-24.942	-33.456	6.640	1.00	35.70
ATOM	7867	N	SER	1153	-23.709	-35.147	7.468	1.00	34.67
ATOM	7868	CA	SER	1153	-24.814	-36.102	7.456	1.00	34.62
ATOM	7869	CB	SER	1153	-24.284	-37.534	7.559	1.00	35.72
ATOM	7870	OG	SER	1153	-23.645	-37.926	6.357	1.00	39.86
ATOM	7871	C	SER	1153	-25.787	-35.852	8.596	1.00	32.97
ATOM	7872	O	SER	1153	-26.974	-36.157	8.487	1.00	33.54
ATOM	7873	N	GLY	1154	-25.280	-35.302	9.692	1.00	30.02
ATOM	7874	CA	GLY	1154	-26.130	-35.039	10.835	1.00	28.64
ATOM	7875	C	GLY	1154	-25.952	-36.090	11.912	1.00	27.31
ATOM	7876	O	GLY	1154	-26.491	-35.960	13.008	1.00	27.96
ATOM	7877	N	VAL	1155	-25.197	-37.140	11.599	1.00	27.21
ATOM	7878	CA	VAL	1155	-24.944	-38.208	12.558	1.00	27.30
ATOM	7879	CB	VAL	1155	-23.969	-39.252	11.984	1.00	27.92
ATOM	7880	CG1	VAL	1155	-23.728	-40.357	13.005	1.00	30.23
ATOM	7881	CG2	VAL	1155	-24.528	-39.828	10.692	1.00	31.88
ATOM	7882	C	VAL	1155	-24.333	-37.614	13.823	1.00	26.47

ATOM	7883	O	VAL	1155	-24.616	-38.065	14.935	1.00	26.28
ATOM	7884	N	TYR	1156	-23.485	-36.606	13.636	1.00	25.70
ATOM	7885	CA	TYR	1156	-22.828	-35.921	14.746	1.00	25.82
ATOM	7886	CB	TYR	1156	-21.307	-36.124	14.709	1.00	24.74
ATOM	7887	CG	TYR	1156	-20.605	-35.437	15.867	1.00	24.07
ATOM	7888	CD1	TYR	1156	-20.649	-35.976	17.156	1.00	23.28
ATOM	7889	CE1	TYR	1156	-20.078	-35.306	18.242	1.00	23.96
ATOM	7890	CD2	TYR	1156	-19.964	-34.213	15.690	1.00	24.41
ATOM	7891	CE2	TYR	1156	-19.392	-33.533	16.768	1.00	24.50
ATOM	7892	CZ	TYR	1156	-19.455	-34.083	18.041	1.00	24.23
ATOM	7893	OH	TYR	1156	-18.920	-33.395	19.112	1.00	23.15
ATOM	7894	C	TYR	1156	-23.116	-34.424	14.696	1.00	26.27
ATOM	7895	O	TYR	1156	-22.996	-33.799	13.642	1.00	26.36
ATOM	7896	N	PRO	1157	-23.471	-33.826	15.844	1.00	27.37
ATOM	7897	CD	PRO	1157	-23.555	-32.365	16.017	1.00	28.85
ATOM	7898	CA	PRO	1157	-23.600	-34.509	17.132	1.00	28.73
ATOM	7899	CB	PRO	1157	-23.499	-33.365	18.138	1.00	28.98
ATOM	7900	CG	PRO	1157	-24.117	-32.234	17.416	1.00	29.31
ATOM	7901	C	PRO	1157	-24.882	-35.319	17.290	1.00	30.00
ATOM	7902	O	PRO	1157	-25.928	-34.970	16.740	1.00	29.72
ATOM	7903	N	GLY	1158	-24.786	-36.409	18.046	1.00	30.34
ATOM	7904	CA	GLY	1158	-25.940	-37.257	18.278	1.00	31.69
ATOM	7905	C	GLY	1158	-26.668	-36.843	19.540	1.00	32.83
ATOM	7906	O	GLY	1158	-26.240	-35.921	20.234	1.00	31.48
ATOM	7907	N	GLU	1159	-27.770	-37.521	19.844	1.00	33.48
ATOM	7908	CA	GLU	1159	-28.538	-37.198	21.036	1.00	34.89
ATOM	7909	CB	GLU	1159	-29.791	-38.075	21.122	1.00	36.68
ATOM	7910	CG	GLU	1159	-30.853	-37.515	22.049	1.00	38.05
ATOM	7911	CD	GLU	1159	-31.472	-36.241	21.503	1.00	39.50
ATOM	7912	OE1	GLU	1159	-32.152	-35.527	22.269	1.00	41.54
ATOM	7913	OE2	GLU	1159	-31.282	-35.958	20.300	1.00	39.55
ATOM	7914	C	GLU	1159	-27.685	-37.403	22.283	1.00	35.20
ATOM	7915	O	GLU	1159	-27.943	-36.802	23.325	1.00	35.87
ATOM	7916	N	GLU	1160	-26.668	-38.256	22.167	1.00	35.14
ATOM	7917	CA	GLU	1160	-25.764	-38.545	23.277	1.00	35.10
ATOM	7918	CB	GLU	1160	-24.870	-39.748	22.951	1.00	37.43
ATOM	7919	CG	GLU	1160	-25.577	-40.902	22.261	1.00	41.76
ATOM	7920	CD	GLU	1160	-25.822	-40.638	20.789	1.00	42.93
ATOM	7921	OE1	GLU	1160	-24.834	-40.410	20.054	1.00	43.83
ATOM	7922	OE2	GLU	1160	-26.999	-40.666	20.368	1.00	43.38
ATOM	7923	C	GLU	1160	-24.862	-37.353	23.583	1.00	33.30
ATOM	7924	O	GLU	1160	-24.259	-37.285	24.654	1.00	31.07
ATOM	7925	N	HIS	1161	-24.777	-36.422	22.637	1.00	32.51
ATOM	7926	CA	HIS	1161	-23.930	-35.238	22.781	1.00	32.09
ATOM	7927	CB	HIS	1161	-23.016	-35.097	21.562	1.00	31.02
ATOM	7928	CG	HIS	1161	-22.355	-36.373	21.143	1.00	29.12
ATOM	7929	CD2	HIS	1161	-22.512	-37.131	20.032	1.00	27.73
ATOM	7930	ND1	HIS	1161	-21.407	-37.013	21.913	1.00	28.00
ATOM	7931	CE1	HIS	1161	-21.012	-38.112	21.296	1.00	27.95
ATOM	7932	NE2	HIS	1161	-21.667	-38.207	20.152	1.00	29.03
ATOM	7933	C	HIS	1161	-24.757	-33.965	22.899	1.00	33.71
ATOM	7934	O	HIS	1161	-24.212	-32.864	22.874	1.00	31.48
ATOM	7935	N	SER	1162	-26.069	-34.121	23.028	1.00	34.90
ATOM	7936	CA	SER	1162	-26.969	-32.981	23.107	1.00	36.32
ATOM	7937	CB	SER	1162	-28.088	-33.167	22.088	1.00	36.36
ATOM	7938	OG	SER	1162	-27.543	-33.422	20.806	1.00	37.50
ATOM	7939	C	SER	1162	-27.562	-32.748	24.492	1.00	37.54
ATOM	7940	O	SER	1162	-27.649	-33.670	25.303	1.00	37.53
ATOM	7941	N	PHE	1163	-27.969	-31.505	24.749	1.00	38.51
ATOM	7942	CA	PHE	1163	-28.563	-31.129	26.028	1.00	39.57
ATOM	7943	CB	PHE	1163	-27.764	-30.000	26.692	1.00	40.57
ATOM	7944	CG	PHE	1163	-26.323	-30.346	26.967	1.00	43.95
ATOM	7945	CD1	PHE	1163	-25.363	-30.253	25.961	1.00	44.75
ATOM	7946	CD2	PHE	1163	-25.926	-30.771	28.232	1.00	44.14
ATOM	7947	CE1	PHE	1163	-24.029	-30.575	26.213	1.00	45.36
ATOM	7948	CE2	PHE	1163	-24.595	-31.096	28.492	1.00	45.59
ATOM	7949	CZ	PHE	1163	-23.645	-30.998	27.480	1.00	44.94
ATOM	7950	C	PHE	1163	-30.007	-30.676	25.838	1.00	39.51
ATOM	7951	O	PHE	1163	-30.449	-30.433	24.715	1.00	39.54
ATOM	7952	N	HIS	1164	-30.736	-30.562	26.944	1.00	40.34
ATOM	7953	CA	HIS	1164	-32.132	-30.136	26.912	1.00	40.45
ATOM	7954	CB	HIS	1164	-33.056	-31.351	26.812	1.00	39.13
ATOM	7955	CG	HIS	1164	-32.963	-32.071	25.504	1.00	37.46
ATOM	7956	CD2	HIS	1164	-32.563	-33.329	25.201	1.00	36.29
ATOM	7957	ND1	HIS	1164	-33.293	-31.476	24.305	1.00	36.11
ATOM	7958	CE1	HIS	1164	-33.100	-32.336	23.321	1.00	34.87
ATOM	7959	NE2	HIS	1164	-32.657	-33.468	23.837	1.00	34.05



ATOM	7960	C	HIS	1164	-32.484	-29.320	28.149	1.00	41.45
ATOM	7961	O	HIS	1164	-33.130	-28.261	27.988	1.00	42.79
ATOM	7962	OXT	HIS	1164	-32.118	-29.749	29.264	1.00	42.44
ATOM	7963	C1	KPL	1165	-14.350	-24.823	22.600	1.00	37.46
ATOM	7964	C2	KPL	1165	-14.556	-23.614	21.664	1.00	35.76
ATOM	7965	C3	KPL	1165	-14.275	-24.044	20.219	1.00	36.86
ATOM	7966	C4	KPL	1165	-16.018	-23.142	21.763	1.00	37.77
ATOM	7967	O1	KPL	1165	-16.308	-22.744	23.112	1.00	39.26
ATOM	7968	C5	KPL	1165	-13.590	-22.469	22.059	1.00	34.45
ATOM	7969	O2	KPL	1165	-14.027	-21.380	22.384	1.00	34.78
ATOM	7970	C6	KPL	1165	-12.093	-22.661	22.058	1.00	32.52
ATOM	7971	O3	KPL	1165	-11.604	-23.720	21.736	1.00	31.95
ATOM	7972	O4	KPL	1165	-11.288	-21.651	22.419	1.00	28.43
ATOM	7973	CB	MET	1201	-15.474	-28.638	47.750	1.00	74.61
ATOM	7974	CG	MET	1201	-16.080	-29.937	48.288	1.00	76.04
ATOM	7975	SD	MET	1201	-15.715	-31.415	47.313	1.00	77.75
ATOM	7976	CE	MET	1201	-17.296	-31.664	46.480	1.00	77.07
ATOM	7977	C	MET	1201	-15.060	-28.920	45.290	1.00	71.84
ATOM	7978	O	MET	1201	-13.988	-29.442	45.601	1.00	72.20
ATOM	7979	N	MET	1201	-17.380	-28.524	46.164	1.00	73.50
ATOM	7980	CA	MET	1201	-15.929	-28.231	46.340	1.00	73.03
ATOM	7981	N	LYS	1202	-15.525	-28.905	44.043	1.00	69.78
ATOM	7982	CA	LYS	1202	-14.795	-29.524	42.940	1.00	67.53
ATOM	7983	CB	LYS	1202	-15.523	-30.791	42.469	1.00	68.57
ATOM	7984	CG	LYS	1202	-15.422	-31.977	43.422	1.00	69.98
ATOM	7985	CD	LYS	1202	-14.031	-32.611	43.409	1.00	70.39
ATOM	7986	CE	LYS	1202	-13.781	-33.424	42.140	1.00	70.57
ATOM	7987	NZ	LYS	1202	-13.778	-32.606	40.895	1.00	70.61
ATOM	7988	C	LYS	1202	-14.609	-28.580	41.752	1.00	64.73
ATOM	7989	O	LYS	1202	-15.029	-28.890	40.637	1.00	65.32
ATOM	7990	N	PRO	1203	-13.973	-27.414	41.973	1.00	61.55
ATOM	7991	CD	PRO	1203	-13.472	-26.591	40.856	1.00	60.49
ATOM	7992	CA	PRO	1203	-13.433	-26.929	43.248	1.00	58.33
ATOM	7993	CB	PRO	1203	-12.232	-26.108	42.802	1.00	58.95
ATOM	7994	CG	PRO	1203	-12.755	-25.453	41.571	1.00	59.90
ATOM	7995	C	PRO	1203	-14.454	-26.086	44.018	1.00	55.17
ATOM	7996	O	PRO	1203	-15.641	-26.081	43.689	1.00	55.08
ATOM	7997	N	THR	1204	-13.987	-25.372	45.039	1.00	50.88
ATOM	7998	CA	THR	1204	-14.863	-24.522	45.843	1.00	46.61
ATOM	7999	CB	THR	1204	-14.165	-24.061	47.140	1.00	46.19
ATOM	8000	OG1	THR	1204	-13.702	-25.204	47.870	1.00	46.22
ATOM	8001	CG2	THR	1204	-15.131	-23.273	48.009	1.00	45.19
ATOM	8002	C	THR	1204	-15.240	-23.288	45.026	1.00	43.63
ATOM	8003	O	THR	1204	-14.373	-22.642	44.440	1.00	42.49
ATOM	8004	N	THR	1205	-16.531	-22.966	44.985	1.00	40.26
ATOM	8005	CA	THR	1205	-17.000	-21.811	44.222	1.00	37.82
ATOM	8006	CB	THR	1205	-17.760	-22.241	42.953	1.00	38.23
ATOM	8007	OG1	THR	1205	-18.955	-22.937	43.330	1.00	39.06
ATOM	8008	CG2	THR	1205	-16.893	-23.142	42.089	1.00	39.20
ATOM	8009	C	THR	1205	-17.924	-20.887	45.002	1.00	35.47
ATOM	8010	O	THR	1205	-18.360	-21.201	46.111	1.00	34.25
ATOM	8011	N	ILE	1206	-18.226	-19.744	44.397	1.00	33.47
ATOM	8012	CA	ILE	1206	-19.104	-18.761	45.010	1.00	34.02
ATOM	8013	CB	ILE	1206	-19.263	-17.528	44.107	1.00	34.29
ATOM	8014	CG2	ILE	1206	-20.055	-16.455	44.834	1.00	33.15
ATOM	8015	CG1	ILE	1206	-17.880	-16.986	43.728	1.00	36.56
ATOM	8016	CD1	ILE	1206	-17.908	-15.950	42.616	1.00	36.92
ATOM	8017	C	ILE	1206	-20.481	-19.368	45.266	1.00	33.47
ATOM	8018	O	ILE	1206	-21.119	-19.080	46.280	1.00	33.95
ATOM	8019	N	SER	1207	-20.933	-20.218	44.350	1.00	33.47
ATOM	8020	CA	SER	1207	-22.236	-20.861	44.494	1.00	34.07
ATOM	8021	CB	SER	1207	-22.515	-21.766	43.292	1.00	34.94
ATOM	8022	OG	SER	1207	-22.693	-21.001	42.111	1.00	37.78
ATOM	8023	C	SER	1207	-22.310	-21.678	45.777	1.00	33.33
ATOM	8024	O	SER	1207	-23.392	-21.899	46.319	1.00	34.33
ATOM	8025	N	LEU	1208	-21.152	-22.121	46.259	1.00	32.96
ATOM	8026	CA	LEU	1208	-21.086	-22.919	47.477	1.00	32.87
ATOM	8027	CB	LEU	1208	-19.676	-23.496	47.651	1.00	34.16
ATOM	8028	CG	LEU	1208	-19.539	-24.923	48.189	1.00	35.32
ATOM	8029	CD1	LEU	1208	-18.071	-25.215	48.489	1.00	34.07
ATOM	8030	CD2	LEU	1208	-20.368	-25.092	49.440	1.00	34.02
ATOM	8031	C	LEU	1208	-21.444	-22.062	48.687	1.00	31.67
ATOM	8032	O	LEU	1208	-22.198	-22.488	49.563	1.00	30.68
ATOM	8033	N	LEU	1209	-20.902	-20.848	48.728	1.00	29.45
ATOM	8034	CA	LEU	1209	-21.158	-19.934	49.834	1.00	28.92
ATOM	8035	CB	LEU	1209	-20.185	-18.753	49.772	1.00	25.98
ATOM	8036	CG	LEU	1209	-18.698	-19.117	49.742	1.00	25.45

ATOM	8037	CD1	LEU	1209	-17.859	-17.844	49.746	1.00	22.70
ATOM	8038	CD2	LEU	1209	-18.356	-19.975	50.947	1.00	23.49
ATOM	8039	C	LEU	1209	-22.595	-19.425	49.802	1.00	29.02
ATOM	8040	O	LEU	1209	-23.207	-19.198	50.844	1.00	28.22
ATOM	8041	N	GLN	1210	-23.126	-19.239	48.598	1.00	30.69
ATOM	8042	CA	GLN	1210	-24.497	-18.763	48.436	1.00	32.68
ATOM	8043	CB	GLN	1210	-24.777	-18.499	46.954	1.00	32.40
ATOM	8044	CG	GLN	1210	-26.138	-17.885	46.648	1.00	33.66
ATOM	8045	CD	GLN	1210	-26.378	-16.573	47.372	1.00	33.08
ATOM	8046	OE1	GLN	1210	-26.857	-16.553	48.506	1.00	33.39
ATOM	8047	NE2	GLN	1210	-26.037	-15.467	46.722	1.00	31.00
ATOM	8048	C	GLN	1210	-25.436	-19.831	48.994	1.00	33.63
ATOM	8049	O	GLN	1210	-26.437	-19.520	49.643	1.00	34.19
ATOM	8050	N	LYS	1211	-25.095	-21.093	48.750	1.00	35.83
ATOM	8051	CA	LYS	1211	-25.888	-22.212	49.247	1.00	37.75
ATOM	8052	CB	LYS	1211	-25.367	-23.533	48.670	1.00	39.41
ATOM	8053	CG	LYS	1211	-25.864	-24.766	49.413	1.00	43.61
ATOM	8054	CD	LYS	1211	-25.471	-26.064	48.717	1.00	46.26
ATOM	8055	CE	LYS	1211	-26.318	-26.314	47.477	1.00	47.80
ATOM	8056	NZ	LYS	1211	-26.008	-27.629	46.849	1.00	49.02
ATOM	8057	C	LYS	1211	-25.833	-22.258	50.775	1.00	38.19
ATOM	8058	O	LYS	1211	-26.822	-22.579	51.434	1.00	37.83
ATOM	8059	N	TYR	1212	-24.673	-21.930	51.334	1.00	37.94
ATOM	8060	CA	TYR	1212	-24.493	-21.933	52.781	1.00	38.24
ATOM	8061	CB	TYR	1212	-23.032	-21.643	53.128	1.00	39.33
ATOM	8062	CG	TYR	1212	-22.101	-22.817	52.936	1.00	41.48
ATOM	8063	CD1	TYR	1212	-20.724	-22.623	52.830	1.00	43.21
ATOM	8064	CE1	TYR	1212	-19.854	-23.698	52.690	1.00	44.20
ATOM	8065	CD2	TYR	1212	-22.587	-24.125	52.897	1.00	42.82
ATOM	8066	CE2	TYR	1212	-21.724	-25.210	52.759	1.00	44.18
ATOM	8067	CZ	TYR	1212	-20.360	-24.987	52.657	1.00	44.87
ATOM	8068	OH	TYR	1212	-19.496	-26.048	52.522	1.00	46.35
ATOM	8069	C	TYR	1212	-25.388	-20.922	53.485	1.00	37.78
ATOM	8070	O	TYR	1212	-25.946	-21.211	54.544	1.00	36.95
ATOM	8071	N	LYS	1213	-25.514	-19.731	52.906	1.00	37.50
ATOM	8072	CA	LYS	1213	-26.348	-18.695	53.506	1.00	37.53
ATOM	8073	CB	LYS	1213	-26.256	-17.387	52.707	1.00	35.24
ATOM	8074	CG	LYS	1213	-27.168	-16.292	53.248	1.00	31.66
ATOM	8075	CD	LYS	1213	-26.732	-14.894	52.831	1.00	27.83
ATOM	8076	CE	LYS	1213	-27.589	-13.850	53.530	1.00	25.23
ATOM	8077	NZ	LYS	1213	-27.068	-12.467	53.408	1.00	24.51
ATOM	8078	C	LYS	1213	-27.803	-19.146	53.591	1.00	39.33
ATOM	8079	O	LYS	1213	-28.451	-18.980	54.624	1.00	39.00
ATOM	8080	N	GLN	1214	-28.312	-19.717	52.505	1.00	40.82
ATOM	8081	CA	GLN	1214	-29.689	-20.190	52.481	1.00	43.81
ATOM	8082	CB	GLN	1214	-30.060	-20.692	51.084	1.00	45.23
ATOM	8083	CG	GLN	1214	-30.123	-19.591	50.037	1.00	48.26
ATOM	8084	CD	GLN	1214	-30.583	-20.097	48.684	1.00	50.37
ATOM	8085	OE1	GLN	1214	-31.663	-20.683	48.561	1.00	52.18
ATOM	8086	NE2	GLN	1214	-29.767	-19.870	47.656	1.00	50.33
ATOM	8087	C	GLN	1214	-29.889	-21.302	53.501	1.00	44.29
ATOM	8088	O	GLN	1214	-30.948	-21.406	54.118	1.00	44.96
ATOM	8089	N	GLU	1215	-28.862	-22.126	53.683	1.00	45.06
ATOM	8090	CA	GLU	1215	-28.934	-23.229	54.633	1.00	45.32
ATOM	8091	CB	GLU	1215	-27.960	-24.343	54.241	1.00	46.90
ATOM	8092	CG	GLU	1215	-28.102	-24.843	52.815	1.00	49.76
ATOM	8093	CD	GLU	1215	-27.175	-26.008	52.522	1.00	51.37
ATOM	8094	OE1	GLU	1215	-25.983	-25.927	52.888	1.00	52.64
ATOM	8095	OE2	GLU	1215	-27.635	-27.000	51.920	1.00	52.49
ATOM	8096	C	GLU	1215	-28.597	-22.744	56.036	1.00	44.97
ATOM	8097	O	GLU	1215	-28.513	-23.541	56.969	1.00	44.92
ATOM	8098	N	LYS	1216	-28.400	-21.437	56.182	1.00	44.76
ATOM	8099	CA	LYS	1216	-28.069	-20.852	57.479	1.00	43.95
ATOM	8100	CB	LYS	1216	-29.252	-21.001	58.442	1.00	45.68
ATOM	8101	CG	LYS	1216	-30.481	-20.179	58.071	1.00	48.07
ATOM	8102	CD	LYS	1216	-30.234	-18.687	58.255	1.00	49.08
ATOM	8103	CE	LYS	1216	-31.475	-17.871	57.914	1.00	50.43
ATOM	8104	NZ	LYS	1216	-32.654	-18.265	58.740	1.00	51.79
ATOM	8105	C	LYS	1216	-26.829	-21.509	58.085	1.00	42.80
ATOM	8106	O	LYS	1216	-26.763	-21.741	59.296	1.00	42.94
ATOM	8107	N	LYS	1217	-25.850	-21.813	57.239	1.00	40.87
ATOM	8108	CA	LYS	1217	-24.613	-22.444	57.693	1.00	39.09
ATOM	8109	CB	LYS	1217	-24.290	-23.667	56.830	1.00	39.84
ATOM	8110	CG	LYS	1217	-22.929	-24.284	57.143	1.00	42.69
ATOM	8111	CD	LYS	1217	-22.622	-25.474	56.250	1.00	45.14
ATOM	8112	CE	LYS	1217	-23.542	-26.651	56.546	1.00	47.62
ATOM	8113	NZ	LYS	1217	-23.209	-27.838	55.706	1.00	48.86

ATOM	8114	C	LYS	1217	-23.439	-21.471	57.646	1.00	36.74
ATOM	8115	O	LYS	1217	-22.930	-21.156	56.573	1.00	37.26
ATOM	8116	N	ARG	1218	-23.008	-21.003	58.812	1.00	33.47
ATOM	8117	CA	ARG	1218	-21.892	-20.069	58.890	1.00	31.52
ATOM	8118	CB	ARG	1218	-21.799	-19.498	60.309	1.00	32.55
ATOM	8119	CG	ARG	1218	-22.894	-18.476	60.603	1.00	31.60
ATOM	8120	CD	ARG	1218	-22.918	-18.029	62.052	1.00	33.28
ATOM	8121	NE	ARG	1218	-23.699	-18.938	62.890	1.00	33.49
ATOM	8122	CZ	ARG	1218	-24.049	-18.678	64.145	1.00	32.58
ATOM	8123	NH1	ARG	1218	-23.688	-17.537	64.716	1.00	33.26
ATOM	8124	NH2	ARG	1218	-24.767	-19.554	64.828	1.00	34.35
ATOM	8125	C	ARG	1218	-20.578	-20.737	58.476	1.00	30.31
ATOM	8126	O	ARG	1218	-20.223	-21.797	58.990	1.00	31.64
ATOM	8127	N	PHE	1219	-19.864	-20.112	57.543	1.00	28.09
ATOM	8128	CA	PHE	1219	-18.607	-20.656	57.038	1.00	24.32
ATOM	8129	CB	PHE	1219	-18.701	-20.816	55.518	1.00	23.44
ATOM	8130	CG	PHE	1219	-19.005	-19.537	54.794	1.00	22.44
ATOM	8131	CD1	PHE	1219	-17.975	-18.711	54.343	1.00	21.27
ATOM	8132	CD2	PHE	1219	-20.321	-19.131	54.606	1.00	22.38
ATOM	8133	CE1	PHE	1219	-18.253	-17.495	53.719	1.00	20.07
ATOM	8134	CE2	PHE	1219	-20.612	-17.918	53.983	1.00	20.42
ATOM	8135	CZ	PHE	1219	-19.575	-17.098	53.539	1.00	22.14
ATOM	8136	C	PHE	1219	-17.384	-19.811	57.411	1.00	24.16
ATOM	8137	O	PHE	1219	-17.476	-18.588	57.576	1.00	20.50
ATOM	8138	N	ALA	1220	-16.238	-20.474	57.541	1.00	23.05
ATOM	8139	CA	ALA	1220	-14.992	-19.801	57.908	1.00	23.62
ATOM	8140	CB	ALA	1220	-14.195	-20.681	58.867	1.00	23.36
ATOM	8141	C	ALA	1220	-14.134	-19.450	56.698	1.00	20.64
ATOM	8142	O	ALA	1220	-14.081	-20.197	55.729	1.00	20.76
ATOM	8143	N	THR	1221	-13.462	-18.309	56.773	1.00	20.56
ATOM	8144	CA	THR	1221	-12.593	-17.846	55.700	1.00	21.27
ATOM	8145	CB	THR	1221	-13.248	-16.670	54.950	1.00	22.71
ATOM	8146	OG1	THR	1221	-14.532	-17.084	54.456	1.00	25.31
ATOM	8147	CG2	THR	1221	-12.391	-16.229	53.790	1.00	26.49
ATOM	8148	C	THR	1221	-11.271	-17.393	56.329	1.00	20.19
ATOM	8149	O	THR	1221	-11.225	-17.055	57.515	1.00	19.48
ATOM	8150	N	ILE	1222	-10.192	-17.369	55.552	1.00	20.17
ATOM	8151	CA	ILE	1222	-8.912	-16.975	56.129	1.00	18.40
ATOM	8152	CB	ILE	1222	-8.229	-18.211	56.779	1.00	19.49
ATOM	8153	CG2	ILE	1222	-7.614	-19.105	55.696	1.00	20.26
ATOM	8154	CG1	ILE	1222	-7.184	-17.753	57.794	1.00	21.68
ATOM	8155	CD1	ILE	1222	-6.591	-18.886	58.621	1.00	25.50
ATOM	8156	C	ILE	1222	-7.972	-16.338	55.115	1.00	18.20
ATOM	8157	O	ILE	1222	-8.138	-16.510	53.910	1.00	17.49
ATOM	8158	N	THR	1223	-6.998	-15.575	55.602	1.00	19.22
ATOM	8159	CA	THR	1223	-6.049	-14.950	54.695	1.00	19.12
ATOM	8160	CB	THR	1223	-5.544	-13.590	55.210	1.00	19.60
ATOM	8161	OG1	THR	1223	-4.681	-13.785	56.332	1.00	20.12
ATOM	8162	CG2	THR	1223	-6.719	-12.709	55.625	1.00	23.60
ATOM	8163	C	THR	1223	-4.870	-15.900	54.524	1.00	16.85
ATOM	8164	O	THR	1223	-4.588	-16.719	55.398	1.00	16.75
ATOM	8165	N	ALA	1224	-4.196	-15.801	53.386	1.00	16.57
ATOM	8166	CA	ALA	1224	-3.042	-16.643	53.098	1.00	16.77
ATOM	8167	CB	ALA	1224	-3.494	-17.980	52.530	1.00	16.53
ATOM	8168	C	ALA	1224	-2.181	-15.886	52.099	1.00	15.47
ATOM	8169	O	ALA	1224	-2.704	-15.171	51.243	1.00	13.50
ATOM	8170	N	TYR	1225	-0.864	-16.043	52.203	1.00	13.85
ATOM	8171	CA	TYR	1225	0.043	-15.321	51.318	1.00	14.02
ATOM	8172	CB	TYR	1225	0.616	-14.088	52.033	1.00	16.12
ATOM	8173	CG	TYR	1225	-0.361	-13.344	52.918	1.00	16.49
ATOM	8174	CD1	TYR	1225	-0.398	-13.577	54.293	1.00	17.47
ATOM	8175	CE1	TYR	1225	-1.295	-12.901	55.118	1.00	19.34
ATOM	8176	CD2	TYR	1225	-1.250	-12.411	52.382	1.00	16.05
ATOM	8177	CE2	TYR	1225	-2.155	-11.728	53.197	1.00	17.27
ATOM	8178	CZ	TYR	1225	-2.170	-11.982	54.566	1.00	17.92
ATOM	8179	OH	TYR	1225	-3.073	-11.324	55.374	1.00	18.55
ATOM	8180	C	TYR	1225	1.204	-16.158	50.807	1.00	15.21
ATOM	8181	O	TYR	1225	2.120	-15.630	50.183	1.00	16.68
ATOM	8182	N	ASP	1226	1.173	-17.458	51.071	1.00	14.35
ATOM	8183	CA	ASP	1226	2.251	-18.321	50.620	1.00	14.15
ATOM	8184	CB	ASP	1226	3.420	-18.262	51.615	1.00	12.62
ATOM	8185	CG	ASP	1226	3.067	-18.827	52.983	1.00	15.38
ATOM	8186	OD1	ASP	1226	2.953	-20.064	53.099	1.00	14.85
ATOM	8187	OD2	ASP	1226	2.912	-18.025	53.933	1.00	15.68
ATOM	8188	C	ASP	1226	1.771	-19.749	50.435	1.00	14.71
ATOM	8189	O	ASP	1226	0.672	-20.113	50.864	1.00	13.48
ATOM	8190	N	TYR	1227	2.604	-20.548	49.780	1.00	13.68

ATOM	8191	CA	TYR	1227	2.312	-21.944	49.490	1.00	12.77
ATOM	8192	CB	TYR	1227	3.454	-22.526	48.657	1.00	13.53
ATOM	8193	CG	TYR	1227	3.407	-24.026	48.496	1.00	14.63
ATOM	8194	CD1	TYR	1227	2.642	-24.611	47.487	1.00	15.74
ATOM	8195	CE1	TYR	1227	2.594	-25.990	47.324	1.00	16.62
ATOM	8196	CD2	TYR	1227	4.128	-24.864	49.351	1.00	17.93
ATOM	8197	CE2	TYR	1227	4.087	-26.250	49.198	1.00	16.82
ATOM	8198	CZ	TYR	1227	3.325	-26.805	48.188	1.00	19.67
ATOM	8199	OH	TYR	1227	3.296	-28.172	48.016	1.00	20.34
ATOM	8200	C	TYR	1227	2.104	-22.826	50.721	1.00	14.61
ATOM	8201	O	TYR	1227	1.169	-23.631	50.770	1.00	13.84
ATOM	8202	N	SER	1228	2.985	-22.677	51.704	1.00	15.14
ATOM	8203	CA	SER	1228	2.932	-23.488	52.915	1.00	17.24
ATOM	8204	CB	SER	1228	4.115	-23.150	53.821	1.00	17.68
ATOM	8205	OG	SER	1228	5.330	-23.536	53.206	1.00	20.49
ATOM	8206	C	SER	1228	1.637	-23.402	53.704	1.00	16.77
ATOM	8207	O	SER	1228	1.012	-24.425	53.989	1.00	17.76
ATOM	8208	N	PHE	1229	1.233	-22.194	54.070	1.00	17.16
ATOM	8209	CA	PHE	1229	-0.001	-22.054	54.822	1.00	16.83
ATOM	8210	CB	PHE	1229	-0.100	-20.663	55.456	1.00	17.59
ATOM	8211	CG	PHE	1229	0.713	-20.521	56.714	1.00	17.48
ATOM	8212	CD1	PHE	1229	1.969	-19.927	56.690	1.00	19.55
ATOM	8213	CD2	PHE	1229	0.239	-21.041	57.916	1.00	20.98
ATOM	8214	CE1	PHE	1229	2.749	-19.852	57.844	1.00	19.23
ATOM	8215	CE2	PHE	1229	1.009	-20.974	59.076	1.00	21.94
ATOM	8216	CZ	PHE	1229	2.267	-20.378	59.038	1.00	20.88
ATOM	8217	C	PHE	1229	-1.226	-22.352	53.965	1.00	16.51
ATOM	8218	O	PHE	1229	-2.190	-22.929	54.452	1.00	16.61
ATOM	8219	N	ALA	1230	-1.198	-21.972	52.691	1.00	15.96
ATOM	8220	CA	ALA	1230	-2.340	-22.247	51.822	1.00	17.17
ATOM	8221	CB	ALA	1230	-2.103	-21.654	50.425	1.00	15.08
ATOM	8222	C	ALA	1230	-2.576	-23.755	51.723	1.00	17.32
ATOM	8223	O	ALA	1230	-3.715	-24.216	51.757	1.00	18.17
ATOM	8224	N	LYS	1231	-1.493	-24.518	51.600	1.00	17.85
ATOM	8225	CA	LYS	1231	-1.577	-25.971	51.493	1.00	18.56
ATOM	8226	CB	LYS	1231	-0.186	-26.546	51.201	1.00	19.63
ATOM	8227	CG	LYS	1231	-0.100	-28.073	51.122	1.00	23.84
ATOM	8228	CD	LYS	1231	-0.869	-28.632	49.940	1.00	29.01
ATOM	8229	CE	LYS	1231	-0.484	-30.086	49.634	1.00	31.79
ATOM	8230	NZ	LYS	1231	-0.862	-31.058	50.706	1.00	35.95
ATOM	8231	C	LYS	1231	-2.127	-26.564	52.789	1.00	17.93
ATOM	8232	O	LYS	1231	-2.990	-27.445	52.767	1.00	19.83
ATOM	8233	N	LEU	1232	-1.626	-26.072	53.916	1.00	19.47
ATOM	8234	CA	LEU	1232	-2.063	-26.557	55.219	1.00	18.49
ATOM	8235	CB	LEU	1232	-1.265	-25.861	56.324	1.00	20.15
ATOM	8236	CG	LEU	1232	-1.474	-26.366	57.758	1.00	20.23
ATOM	8237	CD1	LEU	1232	-0.235	-26.105	58.581	1.00	20.74
ATOM	8238	CD2	LEU	1232	-2.691	-25.670	58.358	1.00	20.65
ATOM	8239	C	LEU	1232	-3.566	-26.318	55.394	1.00	19.99
ATOM	8240	O	LEU	1232	-4.311	-27.227	55.777	1.00	19.78
ATOM	8241	N	PHE	1233	-4.013	-25.102	55.095	1.00	18.10
ATOM	8242	CA	PHE	1233	-5.430	-24.775	55.222	1.00	20.73
ATOM	8243	CB	PHE	1233	-5.701	-23.309	54.844	1.00	18.29
ATOM	8244	CG	PHE	1233	-4.957	-22.306	55.680	1.00	18.77
ATOM	8245	CD1	PHE	1233	-4.606	-22.591	56.996	1.00	18.49
ATOM	8246	CD2	PHE	1233	-4.628	-21.061	55.156	1.00	17.61
ATOM	8247	CE1	PHE	1233	-3.940	-21.652	57.769	1.00	17.42
ATOM	8248	CE2	PHE	1233	-3.961	-20.117	55.926	1.00	15.70
ATOM	8249	CZ	PHE	1233	-3.618	-20.413	57.233	1.00	17.50
ATOM	8250	C	PHE	1233	-6.278	-25.676	54.336	1.00	21.36
ATOM	8251	O	PHE	1233	-7.299	-26.215	54.775	1.00	22.69
ATOM	8252	N	ALA	1234	-5.859	-25.840	53.084	1.00	21.60
ATOM	8253	CA	ALA	1234	-6.601	-26.679	52.147	1.00	21.61
ATOM	8254	CB	ALA	1234	-5.960	-26.612	50.758	1.00	21.86
ATOM	8255	C	ALA	1234	-6.709	-28.133	52.612	1.00	23.65
ATOM	8256	O	ALA	1234	-7.759	-28.758	52.460	1.00	19.72
ATOM	8257	N	ASP	1235	-5.634	-28.675	53.179	1.00	23.15
ATOM	8258	CA	ASP	1235	-5.674	-30.061	53.646	1.00	26.64
ATOM	8259	CB	ASP	1235	-4.264	-30.577	53.973	1.00	26.19
ATOM	8260	CG	ASP	1235	-3.330	-30.562	52.767	1.00	30.30
ATOM	8261	OD1	ASP	1235	-3.758	-30.941	51.657	1.00	29.31
ATOM	8262	OD2	ASP	1235	-2.153	-30.185	52.941	1.00	30.67
ATOM	8263	C	ASP	1235	-6.561	-30.216	54.884	1.00	25.67
ATOM	8264	O	ASP	1235	-6.896	-31.333	55.275	1.00	27.41
ATOM	8265	N	GLU	1236	-6.935	-29.098	55.500	1.00	26.80
ATOM	8266	CA	GLU	1236	-7.779	-29.131	56.693	1.00	28.17
ATOM	8267	CB	GLU	1236	-7.236	-28.167	57.749	1.00	28.31

ATOM	8268	CG	GLU	1236	-5.900	-28.583	58.322	1.00	30.31
ATOM	8269	CD	GLU	1236	-5.947	-29.977	58.913	1.00	30.97
ATOM	8270	OE1	GLU	1236	-6.872	-30.252	59.709	1.00	32.20
ATOM	8271	OE2	GLU	1236	-5.066	-30.797	58.587	1.00	34.13
ATOM	8272	C	GLU	1236	-9.242	-28.805	56.407	1.00	29.14
ATOM	8273	O	GLU	1236	-10.098	-28.956	57.277	1.00	29.70
ATOM	8274	N	GLY	1237	-9.531	-28.348	55.194	1.00	28.96
ATOM	8275	CA	GLY	1237	-10.908	-28.032	54.863	1.00	30.43
ATOM	8276	C	GLY	1237	-11.165	-26.570	54.567	1.00	29.93
ATOM	8277	O	GLY	1237	-12.165	-26.248	53.937	1.00	32.59
ATOM	8278	N	LEU	1238	-10.286	-25.684	55.033	1.00	28.83
ATOM	8279	CA	LEU	1238	-10.449	-24.257	54.771	1.00	28.65
ATOM	8280	CB	LEU	1238	-9.434	-23.438	55.568	1.00	28.60
ATOM	8281	CG	LEU	1238	-9.946	-22.829	56.866	1.00	30.97
ATOM	8282	CD1	LEU	1238	-8.833	-22.052	57.548	1.00	29.17
ATOM	8283	CD2	LEU	1238	-11.130	-21.918	56.559	1.00	30.61
ATOM	8284	C	LEU	1238	-10.225	-24.039	53.283	1.00	26.94
ATOM	8285	O	LEU	1238	-9.085	-23.949	52.835	1.00	27.39
ATOM	8286	N	ASN	1239	-11.313	-23.948	52.523	1.00	24.94
ATOM	8287	CA	ASN	1239	-11.206	-23.782	51.080	1.00	24.45
ATOM	8288	CB	ASN	1239	-12.093	-24.803	50.369	1.00	26.67
ATOM	8289	CG	ASN	1239	-11.838	-26.213	50.844	1.00	29.98
ATOM	8290	OD1	ASN	1239	-10.690	-26.664	50.903	1.00	31.35
ATOM	8291	ND2	ASN	1239	-12.905	-26.924	51.188	1.00	33.26
ATOM	8292	C	ASN	1239	-11.527	-22.391	50.573	1.00	22.89
ATOM	8293	O	ASN	1239	-11.763	-22.201	49.382	1.00	24.50
ATOM	8294	N	VAL	1240	-11.545	-21.420	51.475	1.00	21.81
ATOM	8295	CA	VAL	1240	-11.806	-20.039	51.086	1.00	19.80
ATOM	8296	CB	VAL	1240	-13.137	-19.519	51.629	1.00	20.14
ATOM	8297	CG1	VAL	1240	-13.358	-18.098	51.141	1.00	18.87
ATOM	8298	CG2	VAL	1240	-14.263	-20.413	51.176	1.00	17.75
ATOM	8299	C	VAL	1240	-10.691	-19.190	51.663	1.00	19.46
ATOM	8300	O	VAL	1240	-10.632	-18.960	52.868	1.00	18.98
ATOM	8301	N	MET	1241	-9.811	-18.719	50.788	1.00	18.30
ATOM	8302	CA	MET	1241	-8.678	-17.922	51.210	1.00	17.27
ATOM	8303	CB	MET	1241	-7.382	-18.672	50.927	1.00	17.64
ATOM	8304	CG	MET	1241	-7.204	-19.922	51.769	1.00	18.74
ATOM	8305	SD	MET	1241	-5.840	-20.926	51.216	1.00	19.35
ATOM	8306	CE	MET	1241	-6.619	-22.510	51.062	1.00	19.09
ATOM	8307	C	MET	1241	-8.629	-16.583	50.521	1.00	16.92
ATOM	8308	O	MET	1241	-8.975	-16.469	49.348	1.00	17.62
ATOM	8309	N	LEU	1242	-8.171	-15.571	51.249	1.00	16.36
ATOM	8310	CA	LEU	1242	-8.069	-14.233	50.694	1.00	17.87
ATOM	8311	CB	LEU	1242	-8.950	-13.270	51.501	1.00	19.81
ATOM	8312	CG	LEU	1242	-9.047	-11.757	51.253	1.00	23.91
ATOM	8313	CD1	LEU	1242	-7.919	-11.072	51.987	1.00	25.91
ATOM	8314	CD2	LEU	1242	-9.038	-11.402	49.770	1.00	21.85
ATOM	8315	C	LEU	1242	-6.625	-13.759	50.682	1.00	16.01
ATOM	8316	O	LEU	1242	-5.911	-13.860	51.679	1.00	14.63
ATOM	8317	N	VAL	1243	-6.202	-13.259	49.529	1.00	16.58
ATOM	8318	CA	VAL	1243	-4.859	-12.724	49.381	1.00	15.62
ATOM	8319	CB	VAL	1243	-4.233	-13.152	48.046	1.00	15.84
ATOM	8320	CG1	VAL	1243	-2.801	-12.644	47.954	1.00	15.84
ATOM	8321	CG2	VAL	1243	-4.274	-14.668	47.923	1.00	17.35
ATOM	8322	C	VAL	1243	-5.086	-11.223	49.413	1.00	15.28
ATOM	8323	O	VAL	1243	-5.272	-10.590	48.376	1.00	14.94
ATOM	8324	N	GLY	1244	-5.085	-10.662	50.622	1.00	16.14
ATOM	8325	CA	GLY	1244	-5.351	-9.244	50.780	1.00	18.27
ATOM	8326	C	GLY	1244	-4.156	-8.347	50.980	1.00	16.28
ATOM	8327	O	GLY	1244	-3.061	-8.815	51.306	1.00	14.05
ATOM	8328	N	ASP	1245	-4.368	-7.046	50.798	1.00	17.20
ATOM	8329	CA	ASP	1245	-3.276	-6.105	50.957	1.00	17.71
ATOM	8330	CB	ASP	1245	-3.620	-4.728	50.369	1.00	17.04
ATOM	8331	CG	ASP	1245	-4.889	-4.121	50.952	1.00	16.86
ATOM	8332	OD1	ASP	1245	-5.415	-4.640	51.951	1.00	16.51
ATOM	8333	OD2	ASP	1245	-5.338	-3.111	50.384	1.00	17.00
ATOM	8334	C	ASP	1245	-2.837	-5.978	52.404	1.00	16.69
ATOM	8335	O	ASP	1245	-1.944	-5.202	52.715	1.00	15.57
ATOM	8336	N	SER	1246	-3.471	-6.736	53.291	1.00	16.51
ATOM	8337	CA	SER	1246	-3.050	-6.722	54.685	1.00	18.08
ATOM	8338	CB	SER	1246	-3.963	-7.606	55.539	1.00	17.32
ATOM	8339	OG	SER	1246	-4.087	-8.920	55.004	1.00	20.35
ATOM	8340	C	SER	1246	-1.617	-7.262	54.687	1.00	17.95
ATOM	8341	O	SER	1246	-0.865	-7.062	55.642	1.00	18.43
ATOM	8342	N	LEU	1247	-1.234	-7.943	53.606	1.00	17.78
ATOM	8343	CA	LEU	1247	0.131	-8.473	53.503	1.00	17.35
ATOM	8344	CB	LEU	1247	0.302	-9.318	52.225	1.00	16.63

ATOM	8345	CG	LEU	1247	0.200	-8.648	50.854	1.00	14.50
ATOM	8346	CD1	LEU	1247	1.513	-7.956	50.524	1.00	14.50
ATOM	8347	CD2	LEU	1247	-0.135	-9.688	49.777	1.00	14.80
ATOM	8348	C	LEU	1247	1.143	-7.323	53.521	1.00	15.79
ATOM	8349	O	LEU	1247	2.330	-7.520	53.796	1.00	14.98
ATOM	8350	N	GLY	1248	0.682	-6.116	53.212	1.00	13.56
ATOM	8351	CA	GLY	1248	1.584	-4.978	53.226	1.00	13.97
ATOM	8352	C	GLY	1248	2.119	-4.763	54.624	1.00	15.47
ATOM	8353	O	GLY	1248	3.228	-4.261	54.820	1.00	16.88
ATOM	8354	N	MET	1249	1.325	-5.162	55.608	1.00	14.33
ATOM	8355	CA	MET	1249	1.719	-5.005	56.996	1.00	16.01
ATOM	8356	CB	MET	1249	0.513	-4.502	57.800	1.00	19.46
ATOM	8357	CG	MET	1249	0.018	-3.144	57.322	1.00	21.69
ATOM	8358	SD	MET	1249	-1.516	-2.566	58.097	1.00	26.00
ATOM	8359	CE	MET	1249	-0.965	-2.281	59.756	1.00	27.35
ATOM	8360	C	MET	1249	2.290	-6.289	57.602	1.00	16.59
ATOM	8361	O	MET	1249	3.417	-6.305	58.096	1.00	14.81
ATOM	8362	N	THR	1250	1.525	-7.369	57.530	1.00	16.12
ATOM	8363	CA	THR	1250	1.946	-8.636	58.100	1.00	18.02
ATOM	8364	CB	THR	1250	0.751	-9.598	58.167	1.00	19.93
ATOM	8365	OG1	THR	1250	1.098	-10.759	58.930	1.00	25.56
ATOM	8366	CG2	THR	1250	0.341	-10.019	56.777	1.00	21.14
ATOM	8367	C	THR	1250	3.111	-9.311	57.368	1.00	16.42
ATOM	8368	O	THR	1250	3.920	-10.011	57.982	1.00	17.25
ATOM	8369	N	VAL	1251	3.207	-9.114	56.060	1.00	14.38
ATOM	8370	CA	VAL	1251	4.295	-9.729	55.306	1.00	14.53
ATOM	8371	CB	VAL	1251	3.792	-10.309	53.953	1.00	15.45
ATOM	8372	CG1	VAL	1251	4.975	-10.833	53.133	1.00	12.75
ATOM	8373	CG2	VAL	1251	2.796	-11.428	54.210	1.00	15.08
ATOM	8374	C	VAL	1251	5.419	-8.732	55.039	1.00	14.56
ATOM	8375	O	VAL	1251	6.573	-8.978	55.395	1.00	16.60
ATOM	8376	N	GLN	1252	5.077	-7.598	54.437	1.00	11.43
ATOM	8377	CA	GLN	1252	6.064	-6.574	54.097	1.00	13.81
ATOM	8378	CB	GLN	1252	5.493	-5.649	53.026	1.00	14.06
ATOM	8379	CG	GLN	1252	4.925	-6.404	51.832	1.00	15.86
ATOM	8380	CD	GLN	1252	4.458	-5.482	50.727	1.00	14.76
ATOM	8381	OE1	GLN	1252	4.178	-4.304	50.960	1.00	14.09
ATOM	8382	NE2	GLN	1252	4.358	-6.019	49.513	1.00	12.71
ATOM	8383	C	GLN	1252	6.581	-5.742	55.270	1.00	14.83
ATOM	8384	O	GLN	1252	7.726	-5.291	55.249	1.00	15.58
ATOM	8385	N	GLY	1253	5.739	-5.523	56.272	1.00	15.09
ATOM	8386	CA	GLY	1253	6.165	-4.760	57.434	1.00	15.66
ATOM	8387	C	GLY	1253	5.888	-3.269	57.397	1.00	17.26
ATOM	8388	O	GLY	1253	6.480	-2.501	58.163	1.00	18.18
ATOM	8389	N	HIS	1254	5.001	-2.838	56.509	1.00	17.51
ATOM	8390	CA	HIS	1254	4.671	-1.420	56.429	1.00	18.70
ATOM	8391	CB	HIS	1254	4.126	-1.065	55.045	1.00	19.45
ATOM	8392	CG	HIS	1254	5.119	-1.251	53.945	1.00	19.97
ATOM	8393	CD2	HIS	1254	5.122	-2.083	52.876	1.00	19.30
ATOM	8394	ND1	HIS	1254	6.287	-0.522	53.868	1.00	18.30
ATOM	8395	CE1	HIS	1254	6.965	-0.896	52.798	1.00	22.21
ATOM	8396	NE2	HIS	1254	6.280	-1.841	52.178	1.00	21.62
ATOM	8397	C	HIS	1254	3.634	-1.094	57.488	1.00	18.59
ATOM	8398	O	HIS	1254	2.986	-1.996	58.025	1.00	19.51
ATOM	8399	N	ASP	1255	3.487	0.192	57.788	1.00	19.71
ATOM	8400	CA	ASP	1255	2.530	0.651	58.795	1.00	23.34
ATOM	8401	CB	ASP	1255	2.943	2.030	59.331	1.00	27.63
ATOM	8402	CG	ASP	1255	3.048	3.077	58.239	1.00	29.81
ATOM	8403	OD1	ASP	1255	2.101	3.214	57.443	1.00	33.96
ATOM	8404	OD2	ASP	1255	4.082	3.776	58.178	1.00	37.20
ATOM	8405	C	ASP	1255	1.096	0.712	58.272	1.00	21.29
ATOM	8406	O	ASP	1255	0.156	0.883	59.047	1.00	21.48
ATOM	8407	N	SER	1256	0.931	0.587	56.958	1.00	19.07
ATOM	8408	CA	SER	1256	-0.398	0.609	56.339	1.00	16.19
ATOM	8409	CB	SER	1256	-0.761	2.024	55.869	1.00	14.13
ATOM	8410	OG	SER	1256	0.016	2.418	54.748	1.00	13.20
ATOM	8411	C	SER	1256	-0.394	-0.339	55.141	1.00	16.00
ATOM	8412	O	SER	1256	0.628	-0.956	54.838	1.00	16.64
ATOM	8413	N	THR	1257	-1.526	-0.444	54.453	1.00	15.54
ATOM	8414	CA	THR	1257	-1.616	-1.327	53.296	1.00	13.85
ATOM	8415	CB	THR	1257	-3.001	-2.009	53.214	1.00	14.68
ATOM	8416	OG1	THR	1257	-4.005	-1.020	52.942	1.00	13.16
ATOM	8417	CG2	THR	1257	-3.333	-2.708	54.518	1.00	14.28
ATOM	8418	C	THR	1257	-1.383	-0.596	51.978	1.00	14.73
ATOM	8419	O	THR	1257	-1.260	-1.232	50.931	1.00	14.37
ATOM	8420	N	LEU	1258	-1.296	0.731	52.028	1.00	11.56
ATOM	8421	CA	LEU	1258	-1.116	1.522	50.810	1.00	14.62

ATOM	8422	CB	LEU	1258	-1.059	3.022	51.151	1.00	14.76
ATOM	8423	CG	LEU	1258	-2.415	3.708	51.387	1.00	18.81
ATOM	8424	CD1	LEU	1258	-3.037	3.193	52.689	1.00	18.31
ATOM	8425	CD2	LEU	1258	-2.225	5.211	51.451	1.00	17.89
ATOM	8426	C	LEU	1258	0.049	1.172	49.873	1.00	13.86
ATOM	8427	O	LEU	1258	-0.099	1.248	48.655	1.00	13.08
ATOM	8428	N	PRO	1259	1.215	0.790	50.419	1.00	15.27
ATOM	8429	CD	PRO	1259	1.610	0.817	51.836	1.00	16.92
ATOM	8430	CA	PRO	1259	2.355	0.448	49.562	1.00	13.94
ATOM	8431	CB	PRO	1259	3.521	0.372	50.544	1.00	17.82
ATOM	8432	CG	PRO	1259	2.850	-0.036	51.830	1.00	22.73
ATOM	8433	C	PRO	1259	2.208	-0.827	48.733	1.00	13.69
ATOM	8434	O	PRO	1259	2.956	-1.020	47.779	1.00	11.25
ATOM	8435	N	VAL	1260	1.254	-1.689	49.081	1.00	12.02
ATOM	8436	CA	VAL	1260	1.061	-2.932	48.330	1.00	12.65
ATOM	8437	CB	VAL	1260	-0.025	-3.825	48.981	1.00	12.45
ATOM	8438	CG1	VAL	1260	-0.258	-5.057	48.132	1.00	11.57
ATOM	8439	CG2	VAL	1260	0.401	-4.235	50.391	1.00	9.00
ATOM	8440	C	VAL	1260	0.659	-2.631	46.892	1.00	12.91
ATOM	8441	O	VAL	1260	-0.252	-1.834	46.638	1.00	12.38
ATOM	8442	N	THR	1261	1.325	-3.281	45.941	1.00	14.02
ATOM	8443	CA	THR	1261	1.019	-3.060	44.529	1.00	13.63
ATOM	8444	CB	THR	1261	2.326	-2.816	43.724	1.00	18.67
ATOM	8445	OG1	THR	1261	3.072	-1.749	44.337	1.00	18.95
ATOM	8446	CG2	THR	1261	2.010	-2.410	42.285	1.00	22.02
ATOM	8447	C	THR	1261	0.268	-4.259	43.930	1.00	12.64
ATOM	8448	O	THR	1261	0.115	-5.289	44.572	1.00	11.51
ATOM	8449	N	VAL	1262	-0.197	-4.108	42.697	1.00	10.72
ATOM	8450	CA	VAL	1262	-0.906	-5.181	42.017	1.00	11.46
ATOM	8451	CB	VAL	1262	-1.484	-4.682	40.675	1.00	10.61
ATOM	8452	CG1	VAL	1262	-2.069	-5.852	39.875	1.00	10.47
ATOM	8453	CG2	VAL	1262	-2.576	-3.631	40.956	1.00	10.70
ATOM	8454	C	VAL	1262	0.068	-6.339	41.790	1.00	11.29
ATOM	8455	O	VAL	1262	-0.310	-7.511	41.895	1.00	11.57
ATOM	8456	N	ALA	1263	1.324	-6.006	41.497	1.00	12.19
ATOM	8457	CA	ALA	1263	2.339	-7.031	41.275	1.00	11.44
ATOM	8458	CB	ALA	1263	3.673	-6.389	40.842	1.00	11.79
ATOM	8459	C	ALA	1263	2.531	-7.843	42.556	1.00	11.93
ATOM	8460	O	ALA	1263	2.724	-9.065	42.505	1.00	10.47
ATOM	8461	N	ASP	1264	2.491	-7.172	43.708	1.00	9.71
ATOM	8462	CA	ASP	1264	2.648	-7.883	44.981	1.00	13.19
ATOM	8463	CB	ASP	1264	2.646	-6.916	46.177	1.00	12.97
ATOM	8464	CG	ASP	1264	3.782	-5.904	46.135	1.00	15.35
ATOM	8465	OD1	ASP	1264	4.833	-6.206	45.548	1.00	13.99
ATOM	8466	OD2	ASP	1264	3.635	-4.805	46.713	1.00	12.70
ATOM	8467	C	ASP	1264	1.498	-8.873	45.157	1.00	11.29
ATOM	8468	O	ASP	1264	1.709	-10.036	45.488	1.00	12.23
ATOM	8469	N	ILE	1265	0.279	-8.406	44.920	1.00	10.36
ATOM	8470	CA	ILE	1265	-0.886	-9.263	45.053	1.00	9.25
ATOM	8471	CB	ILE	1265	-2.194	-8.492	44.733	1.00	8.35
ATOM	8472	CG2	ILE	1265	-3.381	-9.460	44.721	1.00	10.20
ATOM	8473	CG1	ILE	1265	-2.436	-7.394	45.763	1.00	10.86
ATOM	8474	CD1	ILE	1265	-2.621	-7.897	47.180	1.00	13.04
ATOM	8475	C	ILE	1265	-0.782	-10.474	44.125	1.00	10.11
ATOM	8476	O	ILE	1265	-1.066	-11.591	44.539	1.00	10.76
ATOM	8477	N	ALA	1266	-0.373	-10.259	42.878	1.00	11.37
ATOM	8478	CA	ALA	1266	-0.269	-11.361	41.915	1.00	10.83
ATOM	8479	CB	ALA	1266	-0.007	-10.804	40.512	1.00	10.92
ATOM	8480	C	ALA	1266	0.801	-12.398	42.299	1.00	10.56
ATOM	8481	O	ALA	1266	0.655	-13.606	42.048	1.00	10.01
ATOM	8482	N	TYR	1267	1.882	-11.919	42.905	1.00	9.93
ATOM	8483	CA	TYR	1267	2.978	-12.783	43.360	1.00	8.50
ATOM	8484	CB	TYR	1267	4.122	-11.912	43.911	1.00	9.28
ATOM	8485	CG	TYR	1267	5.236	-12.676	44.598	1.00	9.52
ATOM	8486	CD1	TYR	1267	6.098	-13.493	43.879	1.00	11.95
ATOM	8487	CE1	TYR	1267	7.142	-14.176	44.509	1.00	12.07
ATOM	8488	CD2	TYR	1267	5.436	-12.559	45.972	1.00	12.37
ATOM	8489	CE2	TYR	1267	6.475	-13.237	46.615	1.00	12.84
ATOM	8490	CZ	TYR	1267	7.321	-14.039	45.875	1.00	14.28
ATOM	8491	OH	TYR	1267	8.365	-14.691	46.510	1.00	13.09
ATOM	8492	C	TYR	1267	2.461	-13.732	44.441	1.00	9.24
ATOM	8493	O	TYR	1267	2.636	-14.960	44.368	1.00	7.23
ATOM	8494	N	HIS	1268	1.808	-13.162	45.448	1.00	10.07
ATOM	8495	CA	HIS	1268	1.277	-13.968	46.549	1.00	11.40
ATOM	8496	CB	HIS	1268	0.899	-13.042	47.717	1.00	10.91
ATOM	8497	CG	HIS	1268	2.093	-12.471	48.425	1.00	10.67
ATOM	8498	CD2	HIS	1268	2.720	-11.277	48.299	1.00	12.54

ATOM	8499	ND1	HIS	1268	2.850	-13.207	49.310	1.00	9.83
ATOM	8500	CE1	HIS	1268	3.896	-12.495	49.694	1.00	12.36
ATOM	8501	NE2	HIS	1268	3.842	-11.321	49.095	1.00	11.55
ATOM	8502	C	HIS	1268	0.099	-14.836	46.096	1.00	12.08
ATOM	8503	O	HIS	1268	-0.104	-15.933	46.610	1.00	10.75
ATOM	8504	N	THR	1269	-0.655	-14.351	45.112	1.00	11.50
ATOM	8505	CA	THR	1269	-1.794	-15.094	44.591	1.00	11.48
ATOM	8506	CB	THR	1269	-2.590	-14.224	43.602	1.00	11.59
ATOM	8507	OG1	THR	1269	-3.215	-13.149	44.319	1.00	12.48
ATOM	8508	CG2	THR	1269	-3.651	-15.039	42.884	1.00	13.07
ATOM	8509	C	THR	1269	-1.340	-16.386	43.909	1.00	10.67
ATOM	8510	O	THR	1269	-1.928	-17.443	44.119	1.00	13.58
ATOM	8511	N	ALA	1270	-0.292	-16.301	43.098	1.00	8.94
ATOM	8512	CA	ALA	1270	0.228	-17.478	42.414	1.00	10.29
ATOM	8513	CB	ALA	1270	1.366	-17.076	41.465	1.00	11.72
ATOM	8514	C	ALA	1270	0.737	-18.492	43.437	1.00	10.90
ATOM	8515	O	ALA	1270	0.556	-19.701	43.269	1.00	12.02
ATOM	8516	N	ALA	1271	1.379	-17.998	44.495	1.00	11.07
ATOM	8517	CA	ALA	1271	1.924	-18.878	45.534	1.00	11.19
ATOM	8518	CB	ALA	1271	2.733	-18.064	46.541	1.00	10.42
ATOM	8519	C	ALA	1271	0.816	-19.642	46.251	1.00	11.93
ATOM	8520	O	ALA	1271	0.912	-20.849	46.458	1.00	9.16
ATOM	8521	N	VAL	1272	-0.228	-18.922	46.645	1.00	12.77
ATOM	8522	CA	VAL	1272	-1.356	-19.528	47.331	1.00	12.55
ATOM	8523	CB	VAL	1272	-2.339	-18.436	47.812	1.00	10.99
ATOM	8524	CG1	VAL	1272	-3.613	-19.062	48.365	1.00	13.11
ATOM	8525	CG2	VAL	1272	-1.660	-17.597	48.893	1.00	10.80
ATOM	8526	C	VAL	1272	-2.063	-20.535	46.436	1.00	12.93
ATOM	8527	O	VAL	1272	-2.442	-21.624	46.882	1.00	13.02
ATOM	8528	N	ARG	1273	-2.226	-20.191	45.163	1.00	12.86
ATOM	8529	CA	ARG	1273	-2.883	-21.109	44.236	1.00	13.02
ATOM	8530	CB	ARG	1273	-3.058	-20.457	42.862	1.00	13.85
ATOM	8531	CG	ARG	1273	-3.681	-21.381	41.817	1.00	15.25
ATOM	8532	CD	ARG	1273	-5.033	-21.909	42.266	1.00	15.44
ATOM	8533	NE	ARG	1273	-6.101	-20.917	42.171	1.00	15.46
ATOM	8534	CZ	ARG	1273	-7.292	-21.060	42.742	1.00	16.08
ATOM	8535	NH1	ARG	1273	-7.558	-22.151	43.454	1.00	14.02
ATOM	8536	NH2	ARG	1273	-8.218	-20.120	42.592	1.00	14.57
ATOM	8537	C	ARG	1273	-2.108	-22.410	44.088	1.00	14.78
ATOM	8538	O	ARG	1273	-2.710	-23.466	43.933	1.00	15.68
ATOM	8539	N	ARG	1274	-0.777	-22.337	44.123	1.00	13.54
ATOM	8540	CA	ARG	1274	0.030	-23.542	44.003	1.00	15.46
ATOM	8541	CB	ARG	1274	1.518	-23.195	43.949	1.00	14.07
ATOM	8542	CG	ARG	1274	1.922	-22.395	42.728	1.00	17.35
ATOM	8543	CD	ARG	1274	3.431	-22.383	42.532	1.00	16.78
ATOM	8544	NE	ARG	1274	3.792	-21.497	41.436	1.00	20.34
ATOM	8545	CZ	ARG	1274	4.066	-20.203	41.573	1.00	20.54
ATOM	8546	NH1	ARG	1274	4.038	-19.634	42.772	1.00	18.45
ATOM	8547	NH2	ARG	1274	4.341	-19.468	40.502	1.00	22.65
ATOM	8548	C	ARG	1274	-0.222	-24.468	45.185	1.00	16.23
ATOM	8549	O	ARG	1274	-0.225	-25.693	45.043	1.00	16.53
ATOM	8550	N	GLY	1275	-0.425	-23.872	46.353	1.00	15.34
ATOM	8551	CA	GLY	1275	-0.671	-24.654	47.554	1.00	16.35
ATOM	8552	C	GLY	1275	-2.105	-25.138	47.686	1.00	17.09
ATOM	8553	O	GLY	1275	-2.363	-26.148	48.338	1.00	17.88
ATOM	8554	N	ALA	1276	-3.042	-24.417	47.077	1.00	15.42
ATOM	8555	CA	ALA	1276	-4.457	-24.785	47.141	1.00	15.88
ATOM	8556	CB	ALA	1276	-5.158	-23.921	48.170	1.00	12.41
ATOM	8557	C	ALA	1276	-5.122	-24.623	45.770	1.00	18.03
ATOM	8558	O	ALA	1276	-5.898	-23.690	45.546	1.00	17.23
ATOM	8559	N	PRO	1277	-4.843	-25.550	44.841	1.00	19.05
ATOM	8560	CD	PRO	1277	-4.009	-26.751	45.029	1.00	21.91
ATOM	8561	CA	PRO	1277	-5.402	-25.507	43.486	1.00	20.89
ATOM	8562	CB	PRO	1277	-4.692	-26.665	42.784	1.00	21.37
ATOM	8563	CG	PRO	1277	-4.452	-27.631	43.890	1.00	23.97
ATOM	8564	C	PRO	1277	-6.922	-25.574	43.340	1.00	21.51
ATOM	8565	O	PRO	1277	-7.458	-25.173	42.306	1.00	21.21
ATOM	8566	N	ASN	1278	-7.615	-26.049	44.371	1.00	20.14
ATOM	8567	CA	ASN	1278	-9.065	-26.171	44.297	1.00	21.69
ATOM	8568	CB	ASN	1278	-9.483	-27.622	44.567	1.00	25.95
ATOM	8569	CG	ASN	1278	-8.833	-28.600	43.610	1.00	26.75
ATOM	8570	OD1	ASN	1278	-8.927	-28.446	42.393	1.00	30.57
ATOM	8571	ND2	ASN	1278	-8.173	-29.612	44.154	1.00	29.13
ATOM	8572	C	ASN	1278	-9.823	-25.245	45.235	1.00	21.44
ATOM	8573	O	ASN	1278	-11.042	-25.346	45.364	1.00	20.63
ATOM	8574	N	CYS	1279	-9.112	-24.332	45.884	1.00	19.87
ATOM	8575	CA	CYS	1279	-9.763	-23.408	46.804	1.00	19.78



ATOM	8576	CB	CYS	1279	-8.749	-22.831	47.799	1.00	19.93
ATOM	8577	SG	CYS	1279	-7.738	-21.467	47.142	1.00	19.97
ATOM	8578	C	CYS	1279	-10.401	-22.245	46.055	1.00	19.66
ATOM	8579	O	CYS	1279	-10.106	-22.019	44.881	1.00	18.47
ATOM	8580	N	LEU	1280	-11.294	-21.530	46.738	1.00	18.36
ATOM	8581	CA	LEU	1280	-11.924	-20.336	46.179	1.00	17.84
ATOM	8582	CB	LEU	1280	-13.296	-20.059	46.814	1.00	19.49
ATOM	8583	CG	LEU	1280	-13.960	-18.734	46.406	1.00	18.08
ATOM	8584	CD1	LEU	1280	-14.186	-18.712	44.897	1.00	19.62
ATOM	8585	CD2	LEU	1280	-15.291	-18.559	47.142	1.00	17.89
ATOM	8586	C	LEU	1280	-10.937	-19.258	46.609	1.00	17.49
ATOM	8587	O	LEU	1280	-10.763	-19.003	47.805	1.00	16.91
ATOM	8588	N	LEU	1281	-10.285	-18.634	45.636	1.00	17.29
ATOM	8589	CA	LEU	1281	-9.274	-17.630	45.930	1.00	16.61
ATOM	8590	CB	LEU	1281	-7.998	-17.969	45.147	1.00	16.66
ATOM	8591	CG	LEU	1281	-6.651	-17.406	45.628	1.00	17.44
ATOM	8592	CD1	LEU	1281	-5.524	-18.159	44.929	1.00	15.28
ATOM	8593	CD2	LEU	1281	-6.566	-15.925	45.366	1.00	21.45
ATOM	8594	C	LEU	1281	-9.692	-16.195	45.633	1.00	17.29
ATOM	8595	O	LEU	1281	-9.900	-15.825	44.475	1.00	15.84
ATOM	8596	N	LEU	1282	-9.820	-15.398	46.689	1.00	16.41
ATOM	8597	CA	LEU	1282	-10.168	-13.983	46.561	1.00	17.05
ATOM	8598	CB	LEU	1282	-11.093	-13.534	47.699	1.00	16.06
ATOM	8599	CG	LEU	1282	-12.601	-13.795	47.550	1.00	17.50
ATOM	8600	CD1	LEU	1282	-12.847	-15.285	47.468	1.00	17.75
ATOM	8601	CD2	LEU	1282	-13.358	-13.176	48.732	1.00	18.80
ATOM	8602	C	LEU	1282	-8.876	-13.169	46.635	1.00	17.94
ATOM	8603	O	LEU	1282	-8.030	-13.425	47.487	1.00	22.05
ATOM	8604	N	ALA	1283	-8.712	-12.199	45.744	1.00	14.13
ATOM	8605	CA	ALA	1283	-7.519	-11.363	45.771	1.00	14.02
ATOM	8606	CB	ALA	1283	-6.694	-11.594	44.532	1.00	11.25
ATOM	8607	C	ALA	1283	-7.940	-9.903	45.855	1.00	12.74
ATOM	8608	O	ALA	1283	-8.862	-9.479	45.157	1.00	12.53
ATOM	8609	N	ASP	1284	-7.287	-9.131	46.719	1.00	13.81
ATOM	8610	CA	ASP	1284	-7.623	-7.718	46.827	1.00	14.31
ATOM	8611	CB	ASP	1284	-7.075	-7.095	48.113	1.00	17.63
ATOM	8612	CG	ASP	1284	-7.972	-7.298	49.310	1.00	19.26
ATOM	8613	OD1	ASP	1284	-9.202	-7.418	49.152	1.00	17.82
ATOM	8614	OD2	ASP	1284	-7.428	-7.301	50.430	1.00	23.10
ATOM	8615	C	ASP	1284	-7.003	-6.912	45.702	1.00	15.99
ATOM	8616	O	ASP	1284	-5.930	-7.256	45.202	1.00	14.33
ATOM	8617	N	LEU	1285	-7.688	-5.849	45.290	1.00	13.28
ATOM	8618	CA	LEU	1285	-7.104	-4.917	44.335	1.00	12.51
ATOM	8619	CB	LEU	1285	-8.151	-4.287	43.418	1.00	14.13
ATOM	8620	CG	LEU	1285	-8.543	-5.157	42.218	1.00	14.99
ATOM	8621	CD1	LEU	1285	-9.420	-4.365	41.262	1.00	15.19
ATOM	8622	CD2	LEU	1285	-7.273	-5.633	41.508	1.00	15.66
ATOM	8623	C	LEU	1285	-6.616	-3.907	45.373	1.00	13.60
ATOM	8624	O	LEU	1285	-7.386	-3.463	46.225	1.00	13.40
ATOM	8625	N	PRO	1286	-5.319	-3.569	45.349	1.00	13.01
ATOM	8626	CD	PRO	1286	-4.276	-4.134	44.477	1.00	12.67
ATOM	8627	CA	PRO	1286	-4.751	-2.621	46.312	1.00	13.67
ATOM	8628	CB	PRO	1286	-3.250	-2.909	46.223	1.00	14.83
ATOM	8629	CG	PRO	1286	-3.075	-3.237	44.758	1.00	13.00
ATOM	8630	C	PRO	1286	-5.079	-1.147	46.079	1.00	13.64
ATOM	8631	O	PRO	1286	-5.772	-0.781	45.128	1.00	14.01
ATOM	8632	N	PHE	1287	-4.583	-0.311	46.983	1.00	13.42
ATOM	8633	CA	PHE	1287	-4.779	1.130	46.929	1.00	13.53
ATOM	8634	CB	PHE	1287	-3.805	1.782	47.915	1.00	15.05
ATOM	8635	CG	PHE	1287	-3.661	3.265	47.750	1.00	15.65
ATOM	8636	CD1	PHE	1287	-4.740	4.120	47.989	1.00	16.81
ATOM	8637	CD2	PHE	1287	-2.435	3.814	47.372	1.00	13.49
ATOM	8638	CE1	PHE	1287	-4.593	5.490	47.865	1.00	16.89
ATOM	8639	CE2	PHE	1287	-2.281	5.184	47.247	1.00	14.29
ATOM	8640	CZ	PHE	1287	-3.367	6.032	47.492	1.00	17.50
ATOM	8641	C	PHE	1287	-4.587	1.692	45.515	1.00	14.14
ATOM	8642	O	PHE	1287	-3.581	1.418	44.851	1.00	11.80
ATOM	8643	N	MET	1288	-5.562	2.484	45.071	1.00	13.14
ATOM	8644	CA	MET	1288	-5.555	3.110	43.751	1.00	13.99
ATOM	8645	CB	MET	1288	-4.470	4.198	43.687	1.00	15.56
ATOM	8646	CG	MET	1288	-4.792	5.333	42.709	1.00	17.83
ATOM	8647	SD	MET	1288	-6.295	6.296	43.134	1.00	16.61
ATOM	8648	CE	MET	1288	-5.573	7.644	44.077	1.00	17.67
ATOM	8649	C	MET	1288	-5.377	2.140	42.569	1.00	14.20
ATOM	8650	O	MET	1288	-4.814	2.515	41.538	1.00	14.63
ATOM	8651	N	ALA	1289	-5.840	0.901	42.704	1.00	12.49
ATOM	8652	CA	ALA	1289	-5.723	-0.046	41.596	1.00	13.64

ATOM	8653	CB	ALA	1289	-5.342	-1.438	42.112	1.00	12.98
ATOM	8654	C	ALA	1289	-7.039	-0.117	40.821	1.00	12.89
ATOM	8655	O	ALA	1289	-7.142	-0.819	39.816	1.00	13.36
ATOM	8656	N	TYR	1290	-8.045	0.623	41.276	1.00	11.64
ATOM	8657	CA	TYR	1290	-9.347	0.624	40.605	1.00	12.12
ATOM	8658	CB	TYR	1290	-10.284	-0.363	41.302	1.00	10.86
ATOM	8659	CG	TYR	1290	-10.276	-0.270	42.816	1.00	12.41
ATOM	8660	CD1	TYR	1290	-11.308	0.371	43.500	1.00	10.35
ATOM	8661	CE1	TYR	1290	-11.321	0.436	44.892	1.00	13.90
ATOM	8662	CD2	TYR	1290	-9.245	-0.844	43.563	1.00	12.59
ATOM	8663	CE2	TYR	1290	-9.242	-0.786	44.959	1.00	15.77
ATOM	8664	CZ	TYR	1290	-10.290	-0.144	45.616	1.00	16.49
ATOM	8665	OH	TYR	1290	-10.313	-0.095	46.992	1.00	16.97
ATOM	8666	C	TYR	1290	-9.946	2.029	40.593	1.00	11.80
ATOM	8667	O	TYR	1290	-11.142	2.212	40.811	1.00	12.18
ATOM	8668	N	ALA	1291	-9.095	3.009	40.310	1.00	11.23
ATOM	8669	CA	ALA	1291	-9.484	4.414	40.291	1.00	12.52
ATOM	8670	CB	ALA	1291	-8.233	5.291	40.232	1.00	13.30
ATOM	8671	C	ALA	1291	-10.425	4.748	39.141	1.00	13.87
ATOM	8672	O	ALA	1291	-11.127	5.755	39.183	1.00	15.07
ATOM	8673	N	THR	1292	-10.402	3.929	38.093	1.00	13.11
ATOM	8674	CA	THR	1292	-11.295	4.111	36.953	1.00	13.77
ATOM	8675	CB	THR	1292	-10.620	4.827	35.753	1.00	14.58
ATOM	8676	OG1	THR	1292	-9.685	3.944	35.123	1.00	13.37
ATOM	8677	CG2	THR	1292	-9.880	6.085	36.210	1.00	15.36
ATOM	8678	C	THR	1292	-11.676	2.699	36.526	1.00	13.97
ATOM	8679	O	THR	1292	-10.972	1.728	36.849	1.00	12.52
ATOM	8680	N	PRO	1293	-12.805	2.554	35.821	1.00	12.10
ATOM	8681	CD	PRO	1293	-13.854	3.557	35.555	1.00	11.83
ATOM	8682	CA	PRO	1293	-13.228	1.222	35.376	1.00	12.00
ATOM	8683	CB	PRO	1293	-14.503	1.517	34.593	1.00	11.85
ATOM	8684	CG	PRO	1293	-15.078	2.695	35.378	1.00	11.15
ATOM	8685	C	PRO	1293	-12.138	0.577	34.518	1.00	14.03
ATOM	8686	O	PRO	1293	-11.789	-0.588	34.712	1.00	15.96
ATOM	8687	N	GLU	1294	-11.592	1.351	33.585	1.00	14.44
ATOM	8688	CA	GLU	1294	-10.533	0.879	32.689	1.00	17.39
ATOM	8689	CB	GLU	1294	-10.024	2.047	31.836	1.00	20.55
ATOM	8690	CG	GLU	1294	-8.898	1.708	30.876	1.00	28.83
ATOM	8691	CD	GLU	1294	-8.043	2.922	30.527	1.00	32.90
ATOM	8692	OE1	GLU	1294	-7.124	3.253	31.311	1.00	36.01
ATOM	8693	OE2	GLU	1294	-8.301	3.553	29.479	1.00	37.17
ATOM	8694	C	GLU	1294	-9.366	0.279	33.471	1.00	16.65
ATOM	8695	O	GLU	1294	-8.904	-0.828	33.179	1.00	15.04
ATOM	8696	N	GLN	1295	-8.873	1.011	34.462	1.00	15.47
ATOM	8697	CA	GLN	1295	-7.760	0.500	35.257	1.00	15.54
ATOM	8698	CB	GLN	1295	-7.184	1.609	36.133	1.00	16.24
ATOM	8699	CG	GLN	1295	-6.427	2.633	35.322	1.00	23.28
ATOM	8700	CD	GLN	1295	-6.020	3.825	36.139	1.00	24.86
ATOM	8701	OE1	GLN	1295	-5.407	3.679	37.192	1.00	24.58
ATOM	8702	NE2	GLN	1295	-6.356	5.021	35.656	1.00	26.69
ATOM	8703	C	GLN	1295	-8.182	-0.682	36.106	1.00	13.96
ATOM	8704	O	GLN	1295	-7.394	-1.606	36.338	1.00	13.72
ATOM	8705	N	ALA	1296	-9.424	-0.654	36.576	1.00	13.84
ATOM	8706	CA	ALA	1296	-9.936	-1.755	37.377	1.00	13.08
ATOM	8707	CB	ALA	1296	-11.364	-1.452	37.848	1.00	14.56
ATOM	8708	C	ALA	1296	-9.925	-3.030	36.528	1.00	12.59
ATOM	8709	O	ALA	1296	-9.525	-4.083	37.010	1.00	13.75
ATOM	8710	N	PHE	1297	-10.345	-2.934	35.265	1.00	10.91
ATOM	8711	CA	PHE	1297	-10.363	-4.121	34.399	1.00	11.05
ATOM	8712	CB	PHE	1297	-10.886	-3.819	32.985	1.00	9.65
ATOM	8713	CG	PHE	1297	-12.206	-3.090	32.942	1.00	10.56
ATOM	8714	CD1	PHE	1297	-13.170	-3.279	33.929	1.00	10.04
ATOM	8715	CD2	PHE	1297	-12.475	-2.205	31.898	1.00	11.57
ATOM	8716	CE1	PHE	1297	-14.387	-2.593	33.891	1.00	10.32
ATOM	8717	CE2	PHE	1297	-13.684	-1.513	31.840	1.00	13.36
ATOM	8718	CZ	PHE	1297	-14.643	-1.706	32.841	1.00	12.32
ATOM	8719	C	PHE	1297	-8.956	-4.698	34.240	1.00	10.73
ATOM	8720	O	PHE	1297	-8.767	-5.908	34.318	1.00	10.33
ATOM	8721	N	GLU	1298	-7.981	-3.827	33.998	1.00	10.95
ATOM	8722	CA	GLU	1298	-6.607	-4.265	33.799	1.00	12.53
ATOM	8723	CB	GLU	1298	-5.736	-3.091	33.353	1.00	16.83
ATOM	8724	CG	GLU	1298	-4.361	-3.499	32.848	1.00	24.35
ATOM	8725	CD	GLU	1298	-4.377	-3.908	31.382	1.00	28.25
ATOM	8726	OE1	GLU	1298	-5.089	-4.875	31.025	1.00	30.56
ATOM	8727	OE2	GLU	1298	-3.681	-3.248	30.576	1.00	33.57
ATOM	8728	C	GLU	1298	-5.990	-4.913	35.036	1.00	11.29
ATOM	8729	O	GLU	1298	-5.396	-5.989	34.951	1.00	10.65

ATOM	8730	N	ASN	1299	-6.130	-4.274	36.190	1.00	10.85
ATOM	8731	CA	ASN	1299	-5.552	-4.838	37.414	1.00	11.72
ATOM	8732	CB	ASN	1299	-5.470	-3.769	38.511	1.00	11.28
ATOM	8733	CG	ASN	1299	-4.544	-2.621	38.121	1.00	14.85
ATOM	8734	OD1	ASN	1299	-3.460	-2.857	37.566	1.00	13.95
ATOM	8735	ND2	ASN	1299	-4.944	-1.389	38.413	1.00	13.47
ATOM	8736	C	ASN	1299	-6.301	-6.070	37.905	1.00	11.79
ATOM	8737	O	ASN	1299	-5.692	-6.983	38.473	1.00	11.65
ATOM	8738	N	ALA	1300	-7.619	-6.104	37.701	1.00	11.62
ATOM	8739	CA	ALA	1300	-8.384	-7.281	38.095	1.00	9.62
ATOM	8740	CB	ALA	1300	-9.864	-7.042	37.911	1.00	11.93
ATOM	8741	C	ALA	1300	-7.927	-8.436	37.209	1.00	9.30
ATOM	8742	O	ALA	1300	-7.725	-9.552	37.688	1.00	11.63
ATOM	8743	N	ALA	1301	-7.745	-8.176	35.918	1.00	9.27
ATOM	8744	CA	ALA	1301	-7.318	-9.247	35.033	1.00	10.11
ATOM	8745	CB	ALA	1301	-7.226	-8.749	33.591	1.00	8.32
ATOM	8746	C	ALA	1301	-5.981	-9.807	35.492	1.00	10.42
ATOM	8747	O	ALA	1301	-5.794	-11.029	35.523	1.00	10.44
ATOM	8748	N	THR	1302	-5.055	-8.926	35.873	1.00	10.18
ATOM	8749	CA	THR	1302	-3.729	-9.378	36.312	1.00	10.80
ATOM	8750	CB	THR	1302	-2.821	-8.189	36.740	1.00	11.76
ATOM	8751	OG1	THR	1302	-2.586	-7.327	35.612	1.00	12.59
ATOM	8752	CG2	THR	1302	-1.479	-8.702	37.260	1.00	11.04
ATOM	8753	C	THR	1302	-3.801	-10.378	37.457	1.00	10.37
ATOM	8754	O	THR	1302	-3.177	-11.439	37.391	1.00	10.85
ATOM	8755	N	VAL	1303	-4.563	-10.070	38.502	1.00	9.66
ATOM	8756	CA	VAL	1303	-4.622	-10.991	39.630	1.00	9.50
ATOM	8757	CB	VAL	1303	-5.112	-10.277	40.894	1.00	13.99
ATOM	8758	CG1	VAL	1303	-4.904	-11.178	42.085	1.00	18.44
ATOM	8759	CG2	VAL	1303	-4.326	-8.981	41.091	1.00	11.75
ATOM	8760	C	VAL	1303	-5.440	-12.253	39.358	1.00	10.29
ATOM	8761	O	VAL	1303	-5.187	-13.312	39.955	1.00	8.82
ATOM	8762	N	MET	1304	-6.412	-12.148	38.453	1.00	10.19
ATOM	8763	CA	MET	1304	-7.219	-13.307	38.069	1.00	12.39
ATOM	8764	CB	MET	1304	-8.431	-12.884	37.221	1.00	13.83
ATOM	8765	CG	MET	1304	-9.485	-12.065	37.951	1.00	18.90
ATOM	8766	SD	MET	1304	-10.483	-13.022	39.099	1.00	21.49
ATOM	8767	CE	MET	1304	-11.599	-13.972	37.916	1.00	17.14
ATOM	8768	C	MET	1304	-6.345	-14.277	37.254	1.00	11.47
ATOM	8769	O	MET	1304	-6.400	-15.495	37.462	1.00	11.55
ATOM	8770	N	ARG	1305	-5.549	-13.746	36.323	1.00	11.47
ATOM	8771	CA	ARG	1305	-4.674	-14.603	35.514	1.00	9.90
ATOM	8772	CB	ARG	1305	-3.925	-13.805	34.441	1.00	9.95
ATOM	8773	CG	ARG	1305	-4.805	-13.184	33.373	1.00	13.47
ATOM	8774	CD	ARG	1305	-4.001	-12.850	32.131	1.00	13.07
ATOM	8775	NE	ARG	1305	-4.782	-12.012	31.231	1.00	18.31
ATOM	8776	CZ	ARG	1305	-4.895	-10.694	31.343	1.00	17.19
ATOM	8777	NH1	ARG	1305	-4.261	-10.044	32.317	1.00	17.95
ATOM	8778	NH2	ARG	1305	-5.680	-10.033	30.500	1.00	16.90
ATOM	8779	C	ARG	1305	-3.643	-15.280	36.411	1.00	11.06
ATOM	8780	O	ARG	1305	-3.161	-16.370	36.103	1.00	10.28
ATOM	8781	N	ALA	1306	-3.314	-14.624	37.519	1.00	9.99
ATOM	8782	CA	ALA	1306	-2.342	-15.166	38.449	1.00	11.44
ATOM	8783	CB	ALA	1306	-1.767	-14.061	39.321	1.00	10.39
ATOM	8784	C	ALA	1306	-2.919	-16.278	39.319	1.00	12.44
ATOM	8785	O	ALA	1306	-2.172	-16.960	40.013	1.00	12.32
ATOM	8786	N	GLY	1307	-4.238	-16.455	39.297	1.00	12.27
ATOM	8787	CA	GLY	1307	-4.823	-17.529	40.075	1.00	13.76
ATOM	8788	C	GLY	1307	-6.098	-17.245	40.850	1.00	13.42
ATOM	8789	O	GLY	1307	-6.733	-18.176	41.345	1.00	14.10
ATOM	8790	N	ALA	1308	-6.481	-15.979	40.964	1.00	11.75
ATOM	8791	CA	ALA	1308	-7.690	-15.619	41.706	1.00	12.70
ATOM	8792	CB	ALA	1308	-7.653	-14.144	42.065	1.00	12.41
ATOM	8793	C	ALA	1308	-8.984	-15.939	40.958	1.00	12.62
ATOM	8794	O	ALA	1308	-9.007	-15.996	39.725	1.00	12.19
ATOM	8795	N	ASN	1309	-10.058	-16.165	41.715	1.00	12.53
ATOM	8796	CA	ASN	1309	-11.368	-16.466	41.138	1.00	13.45
ATOM	8797	CB	ASN	1309	-12.040	-17.641	41.852	1.00	14.86
ATOM	8798	CG	ASN	1309	-11.249	-18.914	41.769	1.00	15.09
ATOM	8799	OD1	ASN	1309	-10.999	-19.445	40.682	1.00	16.19
ATOM	8800	ND2	ASN	1309	-10.852	-19.426	42.926	1.00	12.00
ATOM	8801	C	ASN	1309	-12.288	-15.271	41.323	1.00	13.77
ATOM	8802	O	ASN	1309	-13.353	-15.207	40.719	1.00	14.80
ATOM	8803	N	MET	1310	-11.870	-14.332	42.165	1.00	13.61
ATOM	8804	CA	MET	1310	-12.687	-13.168	42.491	1.00	12.31
ATOM	8805	CB	MET	1310	-13.708	-13.584	43.562	1.00	14.22
ATOM	8806	CG	MET	1310	-14.634	-12.499	44.092	1.00	17.85

ATOM	8807	SD	MET	1310	-15.747	-13.199	45.346	1.00	20.90
ATOM	8808	CE	MET	1310	-17.324	-13.078	44.544	1.00	22.97
ATOM	8809	C	MET	1310	-11.794	-12.051	43.016	1.00	12.24
ATOM	8810	O	MET	1310	-10.737	-12.304	43.589	1.00	11.09
ATOM	8811	N	VAL	1311	-12.227	-10.816	42.818	1.00	12.28
ATOM	8812	CA	VAL	1311	-11.466	-9.666	43.272	1.00	13.29
ATOM	8813	CB	VAL	1311	-11.215	-8.728	42.088	1.00	15.81
ATOM	8814	CG1	VAL	1311	-10.651	-7.421	42.566	1.00	19.74
ATOM	8815	CG2	VAL	1311	-10.253	-9.399	41.106	1.00	16.21
ATOM	8816	C	VAL	1311	-12.234	-8.923	44.360	1.00	13.00
ATOM	8817	O	VAL	1311	-13.462	-8.831	44.303	1.00	13.49
ATOM	8818	N	LYS	1312	-11.519	-8.409	45.355	1.00	12.33
ATOM	8819	CA	LYS	1312	-12.158	-7.642	46.413	1.00	11.16
ATOM	8820	CB	LYS	1312	-11.806	-8.197	47.797	1.00	13.10
ATOM	8821	CG	LYS	1312	-12.465	-7.402	48.925	1.00	15.32
ATOM	8822	CD	LYS	1312	-12.623	-8.211	50.207	1.00	16.26
ATOM	8823	CE	LYS	1312	-11.297	-8.393	50.927	1.00	18.97
ATOM	8824	NZ	LYS	1312	-10.732	-7.084	51.357	1.00	15.88
ATOM	8825	C	LYS	1312	-11.716	-6.188	46.315	1.00	13.64
ATOM	8826	O	LYS	1312	-10.526	-5.897	46.172	1.00	13.12
ATOM	8827	N	ILE	1313	-12.680	-5.274	46.381	1.00	12.62
ATOM	8828	CA	ILE	1313	-12.388	-3.842	46.308	1.00	14.45
ATOM	8829	CB	ILE	1313	-12.802	-3.250	44.949	1.00	16.94
ATOM	8830	CG2	ILE	1313	-11.890	-3.779	43.839	1.00	19.34
ATOM	8831	CG1	ILE	1313	-14.266	-3.588	44.661	1.00	18.39
ATOM	8832	CD1	ILE	1313	-14.764	-3.036	43.343	1.00	19.90
ATOM	8833	C	ILE	1313	-13.127	-3.086	47.413	1.00	14.85
ATOM	8834	O	ILE	1313	-14.264	-3.423	47.748	1.00	13.87
ATOM	8835	N	GLU	1314	-12.483	-2.054	47.951	1.00	15.54
ATOM	8836	CA	GLU	1314	-13.047	-1.259	49.043	1.00	14.90
ATOM	8837	CB	GLU	1314	-11.944	-0.825	50.019	1.00	16.10
ATOM	8838	CG	GLU	1314	-11.092	-1.946	50.573	1.00	17.92
ATOM	8839	CD	GLU	1314	-9.990	-1.445	51.512	1.00	18.81
ATOM	8840	OE1	GLU	1314	-9.869	-0.218	51.713	1.00	18.97
ATOM	8841	OE2	GLU	1314	-9.250	-2.287	52.056	1.00	20.27
ATOM	8842	C	GLU	1314	-13.783	-0.009	48.587	1.00	14.25
ATOM	8843	O	GLU	1314	-13.290	0.737	47.746	1.00	16.21
ATOM	8844	N	GLY	1315	-14.963	0.229	49.151	1.00	16.28
ATOM	8845	CA	GLY	1315	-15.705	1.416	48.781	1.00	16.32
ATOM	8846	C	GLY	1315	-17.196	1.197	48.692	1.00	16.99
ATOM	8847	O	GLY	1315	-17.662	0.060	48.630	1.00	16.14
ATOM	8848	N	GLY	1316	-17.942	2.295	48.669	1.00	16.84
ATOM	8849	CA	GLY	1316	-19.390	2.207	48.600	1.00	18.58
ATOM	8850	C	GLY	1316	-19.974	2.452	47.224	1.00	19.09
ATOM	8851	O	GLY	1316	-19.491	1.928	46.222	1.00	18.98
ATOM	8852	N	GLU	1317	-21.022	3.268	47.196	1.00	19.78
ATOM	8853	CA	GLU	1317	-21.753	3.608	45.983	1.00	21.03
ATOM	8854	CB	GLU	1317	-22.791	4.686	46.302	1.00	24.13
ATOM	8855	CG	GLU	1317	-24.226	4.206	46.235	1.00	34.04
ATOM	8856	CD	GLU	1317	-24.910	4.591	44.946	1.00	35.84
ATOM	8857	OE1	GLU	1317	-24.373	4.264	43.863	1.00	40.02
ATOM	8858	OE2	GLU	1317	-25.986	5.219	45.018	1.00	38.96
ATOM	8859	C	GLU	1317	-20.948	4.052	44.768	1.00	19.20
ATOM	8860	O	GLU	1317	-21.318	3.733	43.640	1.00	17.96
ATOM	8861	N	TRP	1318	-19.857	4.783	44.981	1.00	17.44
ATOM	8862	CA	TRP	1318	-19.079	5.258	43.846	1.00	17.52
ATOM	8863	CB	TRP	1318	-17.909	6.149	44.301	1.00	18.44
ATOM	8864	CG	TRP	1318	-16.754	5.430	44.951	1.00	17.60
ATOM	8865	CD2	TRP	1318	-15.534	5.018	44.316	1.00	17.10
ATOM	8866	CE2	TRP	1318	-14.730	4.408	45.307	1.00	16.85
ATOM	8867	CE3	TRP	1318	-15.043	5.106	43.005	1.00	15.81
ATOM	8868	CD1	TRP	1318	-16.645	5.060	46.262	1.00	18.81
ATOM	8869	NE1	TRP	1318	-15.431	4.448	46.483	1.00	17.06
ATOM	8870	CZ2	TRP	1318	-13.458	3.888	45.030	1.00	16.56
ATOM	8871	CZ3	TRP	1318	-13.774	4.588	42.727	1.00	16.65
ATOM	8872	CH2	TRP	1318	-13.000	3.987	43.736	1.00	13.94
ATOM	8873	C	TRP	1318	-18.557	4.121	42.972	1.00	15.10
ATOM	8874	O	TRP	1318	-18.168	4.346	41.830	1.00	17.22
ATOM	8875	N	LEU	1319	-18.580	2.903	43.507	1.00	15.72
ATOM	8876	CA	LEU	1319	-18.100	1.712	42.804	1.00	14.82
ATOM	8877	CB	LEU	1319	-17.556	0.698	43.813	1.00	15.07
ATOM	8878	CG	LEU	1319	-16.228	1.040	44.490	1.00	15.24
ATOM	8879	CD1	LEU	1319	-15.872	-0.036	45.504	1.00	14.37
ATOM	8880	CD2	LEU	1319	-15.139	1.148	43.429	1.00	14.65
ATOM	8881	C	LEU	1319	-19.129	0.992	41.938	1.00	15.55
ATOM	8882	O	LEU	1319	-18.779	0.080	41.192	1.00	16.40
ATOM	8883	N	VAL	1320	-20.393	1.385	42.028	1.00	15.54

ATOM	8884	CA	VAL	1320	-21.446	0.700	41.274	1.00	15.61
ATOM	8885	CB	VAL	1320	-22.769	1.480	41.328	1.00	15.50
ATOM	8886	CG1	VAL	1320	-23.760	0.896	40.322	1.00	16.93
ATOM	8887	CG2	VAL	1320	-23.339	1.407	42.722	1.00	15.37
ATOM	8888	C	VAL	1320	-21.114	0.401	39.819	1.00	15.88
ATOM	8889	O	VAL	1320	-21.237	-0.740	39.375	1.00	16.33
ATOM	8890	N	GLU	1321	-20.703	1.427	39.078	1.00	15.89
ATOM	8891	CA	GLU	1321	-20.367	1.256	37.667	1.00	16.86
ATOM	8892	CB	GLU	1321	-19.982	2.601	37.038	1.00	18.42
ATOM	8893	CG	GLU	1321	-19.483	2.486	35.604	1.00	23.16
ATOM	8894	CD	GLU	1321	-19.156	3.836	34.967	1.00	27.92
ATOM	8895	OE1	GLU	1321	-18.295	4.576	35.495	1.00	28.97
ATOM	8896	OE2	GLU	1321	-19.761	4.153	33.923	1.00	30.95
ATOM	8897	C	GLU	1321	-19.212	0.265	37.509	1.00	16.05
ATOM	8898	O	GLU	1321	-19.258	-0.639	36.671	1.00	13.68
ATOM	8899	N	THR	1322	-18.180	0.441	38.325	1.00	13.47
ATOM	8900	CA	THR	1322	-17.013	-0.432	38.271	1.00	14.01
ATOM	8901	CB	THR	1322	-15.983	-0.025	39.352	1.00	14.03
ATOM	8902	OG1	THR	1322	-15.481	1.280	39.046	1.00	16.65
ATOM	8903	CG2	THR	1322	-14.807	-1.001	39.395	1.00	13.60
ATOM	8904	C	THR	1322	-17.432	-1.887	38.462	1.00	11.93
ATOM	8905	O	THR	1322	-17.064	-2.768	37.675	1.00	13.98
ATOM	8906	N	VAL	1323	-18.221	-2.133	39.501	1.00	12.13
ATOM	8907	CA	VAL	1323	-18.696	-3.483	39.794	1.00	12.28
ATOM	8908	CB	VAL	1323	-19.511	-3.508	41.107	1.00	14.17
ATOM	8909	CG1	VAL	1323	-20.152	-4.881	41.303	1.00	14.33
ATOM	8910	CG2	VAL	1323	-18.597	-3.177	42.275	1.00	12.26
ATOM	8911	C	VAL	1323	-19.537	-4.061	38.647	1.00	13.33
ATOM	8912	O	VAL	1323	-19.326	-5.203	38.226	1.00	13.70
ATOM	8913	N	GLN	1324	-20.480	-3.274	38.137	1.00	13.37
ATOM	8914	CA	GLN	1324	-21.322	-3.740	37.039	1.00	15.20
ATOM	8915	CB	GLN	1324	-22.300	-2.640	36.599	1.00	16.72
ATOM	8916	CG	GLN	1324	-23.292	-2.224	37.682	1.00	22.21
ATOM	8917	CD	GLN	1324	-24.211	-1.098	37.244	1.00	24.87
ATOM	8918	OE1	GLN	1324	-23.764	-0.121	36.646	1.00	26.46
ATOM	8919	NE2	GLN	1324	-25.498	-1.222	37.552	1.00	27.32
ATOM	8920	C	GLN	1324	-20.460	-4.149	35.850	1.00	15.72
ATOM	8921	O	GLN	1324	-20.617	-5.237	35.304	1.00	14.44
ATOM	8922	N	MET	1325	-19.536	-3.273	35.469	1.00	14.94
ATOM	8923	CA	MET	1325	-18.670	-3.533	34.334	1.00	14.16
ATOM	8924	CB	MET	1325	-17.942	-2.251	33.932	1.00	13.53
ATOM	8925	CG	MET	1325	-18.877	-1.166	33.384	1.00	18.17
ATOM	8926	SD	MET	1325	-17.961	0.297	32.829	1.00	18.88
ATOM	8927	CE	MET	1325	-17.729	-0.079	31.088	1.00	21.14
ATOM	8928	C	MET	1325	-17.688	-4.684	34.558	1.00	13.07
ATOM	8929	O	MET	1325	-17.438	-5.465	33.639	1.00	12.98
ATOM	8930	N	LEU	1326	-17.127	-4.809	35.757	1.00	12.81
ATOM	8931	CA	LEU	1326	-16.213	-5.919	36.009	1.00	13.89
ATOM	8932	CB	LEU	1326	-15.616	-5.835	37.417	1.00	13.67
ATOM	8933	CG	LEU	1326	-14.431	-4.878	37.574	1.00	14.23
ATOM	8934	CD1	LEU	1326	-14.102	-4.695	39.044	1.00	13.52
ATOM	8935	CD2	LEU	1326	-13.228	-5.438	36.815	1.00	13.49
ATOM	8936	C	LEU	1326	-16.965	-7.235	35.864	1.00	15.09
ATOM	8937	O	LEU	1326	-16.477	-8.177	35.229	1.00	17.34
ATOM	8938	N	THR	1327	-18.159	-7.292	36.453	1.00	15.39
ATOM	8939	CA	THR	1327	-18.993	-8.495	36.420	1.00	17.21
ATOM	8940	CB	THR	1327	-20.327	-8.284	37.203	1.00	19.12
ATOM	8941	OG1	THR	1327	-20.041	-8.025	38.585	1.00	22.00
ATOM	8942	CG2	THR	1327	-21.203	-9.530	37.120	1.00	21.12
ATOM	8943	C	THR	1327	-19.331	-8.944	34.999	1.00	17.87
ATOM	8944	O	THR	1327	-19.200	-10.123	34.673	1.00	15.79
ATOM	8945	N	GLU	1328	-19.763	-8.018	34.146	1.00	19.35
ATOM	8946	CA	GLU	1328	-20.110	-8.417	32.787	1.00	19.92
ATOM	8947	CB	GLU	1328	-20.951	-7.330	32.104	1.00	24.09
ATOM	8948	CG	GLU	1328	-20.189	-6.213	31.461	1.00	25.04
ATOM	8949	CD	GLU	1328	-21.115	-5.173	30.854	1.00	23.39
ATOM	8950	OE1	GLU	1328	-22.172	-5.550	30.306	1.00	27.43
ATOM	8951	OE2	GLU	1328	-20.782	-3.977	30.916	1.00	21.37
ATOM	8952	C	GLU	1328	-18.861	-8.769	31.971	1.00	20.62
ATOM	8953	O	GLU	1328	-18.953	-9.345	30.882	1.00	22.88
ATOM	8954	N	ARG	1329	-17.692	-8.443	32.516	1.00	18.60
ATOM	8955	CA	ARG	1329	-16.425	-8.760	31.870	1.00	16.07
ATOM	8956	CB	ARG	1329	-15.499	-7.539	31.903	1.00	15.66
ATOM	8957	CG	ARG	1329	-15.916	-6.473	30.899	1.00	12.22
ATOM	8958	CD	ARG	1329	-15.278	-5.098	31.121	1.00	15.51
ATOM	8959	NE	ARG	1329	-15.805	-4.147	30.144	1.00	11.85
ATOM	8960	CZ	ARG	1329	-17.075	-3.748	30.096	1.00	13.40

ATOM	8961	NH1	ARG	1329	-17.947	-4.206	30.980	1.00	13.96
ATOM	8962	NH2	ARG	1329	-17.486	-2.922	29.142	1.00	11.23
ATOM	8963	C	ARG	1329	-15.737	-9.986	32.496	1.00	16.04
ATOM	8964	O	ARG	1329	-14.508	-10.111	32.466	1.00	15.96
ATOM	8965	N	ALA	1330	-16.541	-10.872	33.078	1.00	15.89
ATOM	8966	CA	ALA	1330	-16.060	-12.129	33.678	1.00	14.56
ATOM	8967	CB	ALA	1330	-15.213	-12.897	32.650	1.00	14.48
ATOM	8968	C	ALA	1330	-15.306	-12.070	35.004	1.00	14.53
ATOM	8969	O	ALA	1330	-14.685	-13.053	35.409	1.00	14.82
ATOM	8970	N	VAL	1331	-15.359	-10.929	35.679	1.00	13.56
ATOM	8971	CA	VAL	1331	-14.678	-10.779	36.951	1.00	14.03
ATOM	8972	CB	VAL	1331	-13.755	-9.536	36.926	1.00	14.54
ATOM	8973	CG1	VAL	1331	-13.126	-9.306	38.300	1.00	15.64
ATOM	8974	CG2	VAL	1331	-12.653	-9.736	35.888	1.00	17.69
ATOM	8975	C	VAL	1331	-15.667	-10.663	38.117	1.00	13.93
ATOM	8976	O	VAL	1331	-16.349	-9.660	38.260	1.00	15.56
ATOM	8977	N	PRO	1332	-15.779	-11.716	38.946	1.00	14.57
ATOM	8978	CD	PRO	1332	-15.253	-13.080	38.790	1.00	12.80
ATOM	8979	CA	PRO	1332	-16.706	-11.638	40.079	1.00	14.22
ATOM	8980	CB	PRO	1332	-16.793	-13.077	40.572	1.00	15.61
ATOM	8981	CG	PRO	1332	-15.500	-13.663	40.155	1.00	20.45
ATOM	8982	C	PRO	1332	-16.111	-10.694	41.100	1.00	13.84
ATOM	8983	O	PRO	1332	-14.888	-10.616	41.268	1.00	11.75
ATOM	8984	N	VAL	1333	-16.976	-9.966	41.784	1.00	12.32
ATOM	8985	CA	VAL	1333	-16.502	-8.991	42.752	1.00	11.45
ATOM	8986	CB	VAL	1333	-16.886	-7.561	42.311	1.00	10.56
ATOM	8987	CG1	VAL	1333	-16.465	-6.551	43.378	1.00	12.68
ATOM	8988	CG2	VAL	1333	-16.228	-7.235	40.987	1.00	9.00
ATOM	8989	C	VAL	1333	-17.022	-9.206	44.150	1.00	13.49
ATOM	8990	O	VAL	1333	-18.176	-9.581	44.346	1.00	13.53
ATOM	8991	N	CYS	1334	-16.145	-8.987	45.122	1.00	12.49
ATOM	8992	CA	CYS	1334	-16.515	-9.072	46.524	1.00	13.08
ATOM	8993	CB	CYS	1334	-15.561	-9.988	47.294	1.00	14.71
ATOM	8994	SG	CYS	1334	-15.827	-9.940	49.091	1.00	15.45
ATOM	8995	C	CYS	1334	-16.359	-7.637	47.015	1.00	13.95
ATOM	8996	O	CYS	1334	-15.312	-7.011	46.818	1.00	14.76
ATOM	8997	N	GLY	1335	-17.413	-7.114	47.627	1.00	14.01
ATOM	8998	CA	GLY	1335	-17.373	-5.764	48.141	1.00	13.56
ATOM	8999	C	GLY	1335	-16.726	-5.747	49.510	1.00	13.93
ATOM	9000	O	GLY	1335	-16.501	-6.802	50.105	1.00	14.54
ATOM	9001	N	HIS	1336	-16.445	-4.551	50.017	1.00	14.71
ATOM	9002	CA	HIS	1336	-15.801	-4.397	51.320	1.00	14.53
ATOM	9003	CB	HIS	1336	-14.277	-4.469	51.143	1.00	13.80
ATOM	9004	CG	HIS	1336	-13.511	-4.501	52.431	1.00	16.43
ATOM	9005	CD2	HIS	1336	-13.866	-4.166	53.697	1.00	14.92
ATOM	9006	ND1	HIS	1336	-12.199	-4.917	52.502	1.00	16.33
ATOM	9007	CE1	HIS	1336	-11.778	-4.839	53.752	1.00	17.68
ATOM	9008	NE2	HIS	1336	-12.769	-4.386	54.498	1.00	15.76
ATOM	9009	C	HIS	1336	-16.206	-3.043	51.905	1.00	14.17
ATOM	9010	O	HIS	1336	-15.852	-2.005	51.363	1.00	13.31
ATOM	9011	N	LEU	1337	-16.947	-3.069	53.010	1.00	16.38
ATOM	9012	CA	LEU	1337	-17.417	-1.855	53.662	1.00	14.42
ATOM	9013	CB	LEU	1337	-18.937	-1.727	53.509	1.00	14.97
ATOM	9014	CG	LEU	1337	-19.500	-1.425	52.118	1.00	13.18
ATOM	9015	CD1	LEU	1337	-21.022	-1.498	52.174	1.00	16.54
ATOM	9016	CD2	LEU	1337	-19.039	-0.057	51.659	1.00	15.16
ATOM	9017	C	LEU	1337	-17.074	-1.819	55.152	1.00	15.08
ATOM	9018	O	LEU	1337	-16.704	-2.835	55.735	1.00	15.49
ATOM	9019	N	GLY	1338	-17.234	-0.646	55.763	1.00	16.52
ATOM	9020	CA	GLY	1338	-16.931	-0.487	57.175	1.00	18.65
ATOM	9021	C	GLY	1338	-15.546	0.103	57.329	1.00	20.37
ATOM	9022	O	GLY	1338	-15.244	1.169	56.779	1.00	20.72
ATOM	9023	N	LEU	1339	-14.692	-0.592	58.071	1.00	21.08
ATOM	9024	CA	LEU	1339	-13.328	-0.130	58.274	1.00	21.80
ATOM	9025	CB	LEU	1339	-12.760	-0.690	59.586	1.00	22.96
ATOM	9026	CG	LEU	1339	-11.636	0.099	60.273	1.00	26.11
ATOM	9027	CD1	LEU	1339	-11.099	-0.714	61.435	1.00	25.23
ATOM	9028	CD2	LEU	1339	-10.528	0.410	59.290	1.00	25.89
ATOM	9029	C	LEU	1339	-12.500	-0.633	57.096	1.00	21.63
ATOM	9030	O	LEU	1339	-12.007	-1.762	57.108	1.00	21.30
ATOM	9031	N	THR	1340	-12.386	0.205	56.070	1.00	21.68
ATOM	9032	CA	THR	1340	-11.618	-0.104	54.864	1.00	22.62
ATOM	9033	CB	THR	1340	-12.301	0.507	53.626	1.00	23.97
ATOM	9034	OG1	THR	1340	-12.526	1.906	53.842	1.00	23.53
ATOM	9035	CG2	THR	1340	-13.641	-0.169	53.375	1.00	26.26
ATOM	9036	C	THR	1340	-10.232	0.510	55.053	1.00	20.26
ATOM	9037	O	THR	1340	-10.057	1.715	54.899	1.00	23.50

ATOM	9038	N	PRO	1341	-9.226	-0.323	55.372	1.00	20.57
ATOM	9039	CD	PRO	1341	-9.300	-1.794	55.327	1.00	21.40
ATOM	9040	CA	PRO	1341	-7.842	0.114	55.603	1.00	19.00
ATOM	9041	CB	PRO	1341	-7.091	-1.205	55.802	1.00	22.07
ATOM	9042	CG	PRO	1341	-7.881	-2.171	54.978	1.00	25.73
ATOM	9043	C	PRO	1341	-7.180	1.019	54.570	1.00	18.31
ATOM	9044	O	PRO	1341	-6.332	1.832	54.928	1.00	16.70
ATOM	9045	N	GLN	1342	-7.551	0.895	53.299	1.00	15.90
ATOM	9046	CA	GLN	1342	-6.944	1.751	52.284	1.00	18.99
ATOM	9047	CB	GLN	1342	-7.432	1.355	50.882	1.00	16.29
ATOM	9048	CG	GLN	1342	-6.722	0.124	50.316	1.00	17.70
ATOM	9049	CD	GLN	1342	-7.365	-0.407	49.047	1.00	18.63
ATOM	9050	OE1	GLN	1342	-7.891	0.360	48.236	1.00	21.48
ATOM	9051	NE2	GLN	1342	-7.310	-1.725	48.858	1.00	20.30
ATOM	9052	C	GLN	1342	-7.225	3.235	52.559	1.00	18.46
ATOM	9053	O	GLN	1342	-6.435	4.104	52.189	1.00	20.27
ATOM	9054	N	SER	1343	-8.347	3.528	53.207	1.00	20.86
ATOM	9055	CA	SER	1343	-8.684	4.913	53.528	1.00	21.17
ATOM	9056	CB	SER	1343	-10.190	5.154	53.330	1.00	22.94
ATOM	9057	OG	SER	1343	-10.574	4.937	51.979	1.00	24.54
ATOM	9058	C	SER	1343	-8.288	5.261	54.972	1.00	21.41
ATOM	9059	O	SER	1343	-8.924	6.099	55.620	1.00	20.45
ATOM	9060	N	VAL	1344	-7.232	4.632	55.480	1.00	20.55
ATOM	9061	CA	VAL	1344	-6.802	4.911	56.849	1.00	21.71
ATOM	9062	CB	VAL	1344	-5.552	4.060	57.252	1.00	23.85
ATOM	9063	CG1	VAL	1344	-4.370	4.379	56.351	1.00	21.50
ATOM	9064	CG2	VAL	1344	-5.201	4.321	58.712	1.00	22.91
ATOM	9065	C	VAL	1344	-6.501	6.398	57.057	1.00	22.37
ATOM	9066	O	VAL	1344	-6.803	6.960	58.114	1.00	22.26
ATOM	9067	N	ASN	1345	-5.929	7.038	56.041	1.00	22.04
ATOM	9068	CA	ASN	1345	-5.596	8.458	56.123	1.00	22.35
ATOM	9069	CB	ASN	1345	-4.665	8.845	54.974	1.00	22.83
ATOM	9070	CG	ASN	1345	-3.349	8.103	55.030	1.00	22.33
ATOM	9071	OD1	ASN	1345	-2.566	8.288	55.958	1.00	23.07
ATOM	9072	ND2	ASN	1345	-3.103	7.248	54.045	1.00	22.68
ATOM	9073	C	ASN	1345	-6.840	9.336	56.103	1.00	24.24
ATOM	9074	O	ASN	1345	-6.816	10.465	56.588	1.00	23.31
ATOM	9075	N	ILE	1346	-7.923	8.817	55.534	1.00	24.67
ATOM	9076	CA	ILE	1346	-9.179	9.561	55.477	1.00	26.60
ATOM	9077	CB	ILE	1346	-10.155	8.949	54.447	1.00	25.22
ATOM	9078	CG2	ILE	1346	-11.529	9.593	54.580	1.00	25.45
ATOM	9079	CG1	ILE	1346	-9.604	9.121	53.031	1.00	26.82
ATOM	9080	CD1	ILE	1346	-9.646	10.548	52.518	1.00	27.54
ATOM	9081	C	ILE	1346	-9.847	9.534	56.850	1.00	25.86
ATOM	9082	O	ILE	1346	-10.311	10.565	57.337	1.00	27.66
ATOM	9083	N	PHE	1347	-9.896	8.352	57.463	1.00	26.34
ATOM	9084	CA	PHE	1347	-10.513	8.180	58.780	1.00	27.79
ATOM	9085	CB	PHE	1347	-10.855	6.707	59.040	1.00	30.55
ATOM	9086	CG	PHE	1347	-11.662	6.055	57.951	1.00	33.41
ATOM	9087	CD1	PHE	1347	-12.751	6.707	57.382	1.00	33.70
ATOM	9088	CD2	PHE	1347	-11.349	4.766	57.518	1.00	34.68
ATOM	9089	CE1	PHE	1347	-13.516	6.088	56.398	1.00	34.26
ATOM	9090	CE2	PHE	1347	-12.108	4.137	56.533	1.00	34.13
ATOM	9091	CZ	PHE	1347	-13.193	4.799	55.973	1.00	35.64
ATOM	9092	C	PHE	1347	-9.609	8.655	59.912	1.00	28.04
ATOM	9093	O	PHE	1347	-10.062	8.822	61.044	1.00	25.56
ATOM	9094	N	GLY	1348	-8.329	8.852	59.609	1.00	28.73
ATOM	9095	CA	GLY	1348	-7.387	9.290	60.625	1.00	30.19
ATOM	9096	C	GLY	1348	-6.961	8.147	61.531	1.00	31.20
ATOM	9097	O	GLY	1348	-6.574	8.361	62.679	1.00	32.36
ATOM	9098	N	GLY	1349	-7.039	6.923	61.019	1.00	32.22
ATOM	9099	CA	GLY	1349	-6.651	5.770	61.812	1.00	33.19
ATOM	9100	C	GLY	1349	-7.580	4.592	61.597	1.00	34.56
ATOM	9101	O	GLY	1349	-8.482	4.649	60.762	1.00	32.55
ATOM	9102	N	TYR	1350	-7.359	3.517	62.346	1.00	35.88
ATOM	9103	CA	TYR	1350	-8.195	2.333	62.226	1.00	36.67
ATOM	9104	CB	TYR	1350	-7.336	1.069	62.293	1.00	36.59
ATOM	9105	CG	TYR	1350	-6.220	1.046	61.271	1.00	38.85
ATOM	9106	CD1	TYR	1350	-4.989	1.643	61.542	1.00	38.83
ATOM	9107	CE1	TYR	1350	-3.969	1.661	60.592	1.00	38.99
ATOM	9108	CD2	TYR	1350	-6.406	0.463	60.017	1.00	38.83
ATOM	9109	CE2	TYR	1350	-5.389	0.478	59.054	1.00	38.92
ATOM	9110	CZ	TYR	1350	-4.177	1.079	59.350	1.00	38.88
ATOM	9111	OH	TYR	1350	-3.174	1.117	58.407	1.00	38.09
ATOM	9112	C	TYR	1350	-9.239	2.327	63.336	1.00	37.58
ATOM	9113	O	TYR	1350	-9.110	1.612	64.330	1.00	38.34
ATOM	9114	N	LYS	1351	-10.278	3.132	63.150	1.00	37.80

ATOM	9115	CA	LYS	1351	-11.349	3.254	64.128	1.00	37.85
ATOM	9116	CB	LYS	1351	-11.650	4.738	64.354	1.00	39.96
ATOM	9117	CG	LYS	1351	-10.399	5.592	64.529	1.00	41.93
ATOM	9118	CD	LYS	1351	-10.671	7.063	64.253	1.00	43.31
ATOM	9119	CE	LYS	1351	-9.373	7.860	64.209	1.00	44.78
ATOM	9120	NZ	LYS	1351	-9.596	9.288	63.846	1.00	44.41
ATOM	9121	C	LYS	1351	-12.612	2.531	63.648	1.00	37.02
ATOM	9122	O	LYS	1351	-12.809	2.329	62.449	1.00	35.65
ATOM	9123	N	VAL	1352	-13.461	2.145	64.595	1.00	36.10
ATOM	9124	CA	VAL	1352	-14.705	1.456	64.280	1.00	35.05
ATOM	9125	CB	VAL	1352	-15.483	1.100	65.569	1.00	35.70
ATOM	9126	CG1	VAL	1352	-16.731	0.303	65.232	1.00	34.09
ATOM	9127	CG2	VAL	1352	-14.586	0.314	66.512	1.00	35.71
ATOM	9128	C	VAL	1352	-15.570	2.358	63.405	1.00	34.29
ATOM	9129	O	VAL	1352	-15.604	3.576	63.595	1.00	32.86
ATOM	9130	N	GLN	1353	-16.259	1.755	62.441	1.00	33.15
ATOM	9131	CA	GLN	1353	-17.121	2.493	61.523	1.00	33.61
ATOM	9132	CB	GLN	1353	-16.664	2.248	60.082	1.00	35.20
ATOM	9133	CG	GLN	1353	-16.394	3.503	59.269	1.00	37.01
ATOM	9134	CD	GLN	1353	-15.374	4.407	59.920	1.00	37.73
ATOM	9135	OE1	GLN	1353	-14.339	3.948	60.405	1.00	39.42
ATOM	9136	NE2	GLN	1353	-15.656	5.703	59.929	1.00	39.06
ATOM	9137	C	GLN	1353	-18.568	2.038	61.678	1.00	32.00
ATOM	9138	O	GLN	1353	-18.839	1.006	62.289	1.00	32.23
ATOM	9139	N	GLY	1354	-19.497	2.810	61.124	1.00	32.12
ATOM	9140	CA	GLY	1354	-20.901	2.445	61.207	1.00	32.69
ATOM	9141	C	GLY	1354	-21.624	2.931	62.453	1.00	33.83
ATOM	9142	O	GLY	1354	-22.812	2.658	62.634	1.00	33.12
ATOM	9143	N	ARG	1355	-20.912	3.646	63.317	1.00	33.73
ATOM	9144	CA	ARG	1355	-21.509	4.168	64.538	1.00	35.35
ATOM	9145	CB	ARG	1355	-20.420	4.610	65.523	1.00	36.22
ATOM	9146	CG	ARG	1355	-19.601	3.469	66.116	1.00	37.99
ATOM	9147	CD	ARG	1355	-19.623	3.530	67.636	1.00	37.53
ATOM	9148	NE	ARG	1355	-18.923	2.412	68.266	1.00	38.27
ATOM	9149	CZ	ARG	1355	-17.601	2.278	68.305	1.00	37.61
ATOM	9150	NH1	ARG	1355	-16.819	3.195	67.752	1.00	38.90
ATOM	9151	NH2	ARG	1355	-17.062	1.228	68.905	1.00	38.50
ATOM	9152	C	ARG	1355	-22.417	5.353	64.221	1.00	34.99
ATOM	9153	O	ARG	1355	-21.988	6.326	63.601	1.00	33.87
ATOM	9154	N	GLY	1356	-23.673	5.268	64.645	1.00	35.30
ATOM	9155	CA	GLY	1356	-24.603	6.353	64.388	1.00	36.39
ATOM	9156	C	GLY	1356	-25.609	5.991	63.316	1.00	36.56
ATOM	9157	O	GLY	1356	-25.403	5.044	62.556	1.00	37.08
ATOM	9158	N	ASP	1357	-26.704	6.741	63.251	1.00	35.94
ATOM	9159	CA	ASP	1357	-27.730	6.470	62.257	1.00	35.55
ATOM	9160	CB	ASP	1357	-29.029	7.206	62.596	1.00	38.36
ATOM	9161	CG	ASP	1357	-29.677	6.687	63.863	1.00	39.91
ATOM	9162	OD1	ASP	1357	-29.647	5.458	64.092	1.00	41.41
ATOM	9163	OD2	ASP	1357	-30.229	7.504	64.624	1.00	42.41
ATOM	9164	C	ASP	1357	-27.280	6.860	60.859	1.00	33.61
ATOM	9165	O	ASP	1357	-27.444	6.092	59.915	1.00	34.09
ATOM	9166	N	GLU	1358	-26.710	8.051	60.723	1.00	31.82
ATOM	9167	CA	GLU	1358	-26.257	8.517	59.419	1.00	32.56
ATOM	9168	CB	GLU	1358	-25.702	9.938	59.531	1.00	35.82
ATOM	9169	CG	GLU	1358	-25.286	10.550	58.206	1.00	41.80
ATOM	9170	CD	GLU	1358	-24.844	11.992	58.347	1.00	44.28
ATOM	9171	OE1	GLU	1358	-25.675	12.835	58.748	1.00	47.82
ATOM	9172	OE2	GLU	1358	-23.665	12.286	58.062	1.00	47.55
ATOM	9173	C	GLU	1358	-25.203	7.584	58.819	1.00	31.25
ATOM	9174	O	GLU	1358	-25.300	7.199	57.652	1.00	29.54
ATOM	9175	N	ALA	1359	-24.205	7.218	59.619	1.00	28.61
ATOM	9176	CA	ALA	1359	-23.141	6.327	59.162	1.00	26.73
ATOM	9177	CB	ALA	1359	-22.033	6.251	60.213	1.00	27.02
ATOM	9178	C	ALA	1359	-23.694	4.931	58.887	1.00	25.02
ATOM	9179	O	ALA	1359	-23.314	4.281	57.910	1.00	25.54
ATOM	9180	N	GLY	1360	-24.591	4.483	59.759	1.00	22.90
ATOM	9181	CA	GLY	1360	-25.191	3.171	59.606	1.00	22.42
ATOM	9182	C	GLY	1360	-26.036	3.070	58.350	1.00	23.63
ATOM	9183	O	GLY	1360	-25.874	2.143	57.552	1.00	21.50
ATOM	9184	N	ASP	1361	-26.940	4.029	58.175	1.00	23.37
ATOM	9185	CA	ASP	1361	-27.809	4.055	57.010	1.00	24.97
ATOM	9186	CB	ASP	1361	-28.776	5.242	57.082	1.00	25.15
ATOM	9187	CG	ASP	1361	-29.778	5.109	58.212	1.00	25.98
ATOM	9188	OD1	ASP	1361	-30.037	3.963	58.634	1.00	24.04
ATOM	9189	OD2	ASP	1361	-30.312	6.148	58.662	1.00	26.75
ATOM	9190	C	ASP	1361	-27.001	4.128	55.715	1.00	24.67
ATOM	9191	O	ASP	1361	-27.418	3.599	54.682	1.00	23.97



ATOM	9192	N	GLN	1362	-25.843	4.775	55.763	1.00	23.06
ATOM	9193	CA	GLN	1362	-25.021	4.882	54.563	1.00	23.44
ATOM	9194	CB	GLN	1362	-23.890	5.896	54.766	1.00	23.04
ATOM	9195	CG	GLN	1362	-23.177	6.276	53.474	1.00	25.55
ATOM	9196	CD	GLN	1362	-24.113	6.925	52.464	1.00	29.06
ATOM	9197	OE1	GLN	1362	-24.758	7.933	52.760	1.00	28.92
ATOM	9198	NE2	GLN	1362	-24.195	6.345	51.266	1.00	29.63
ATOM	9199	C	GLN	1362	-24.439	3.519	54.194	1.00	23.54
ATOM	9200	O	GLN	1362	-24.409	3.157	53.019	1.00	23.64
ATOM	9201	N	LEU	1363	-23.984	2.764	55.190	1.00	24.10
ATOM	9202	CA	LEU	1363	-23.418	1.441	54.932	1.00	25.78
ATOM	9203	CB	LEU	1363	-22.840	0.831	56.214	1.00	27.37
ATOM	9204	CG	LEU	1363	-21.488	1.337	56.715	1.00	30.02
ATOM	9205	CD1	LEU	1363	-21.078	0.539	57.948	1.00	29.46
ATOM	9206	CD2	LEU	1363	-20.436	1.184	55.628	1.00	30.43
ATOM	9207	C	LEU	1363	-24.453	0.485	54.354	1.00	25.61
ATOM	9208	O	LEU	1363	-24.186	-0.215	53.378	1.00	24.86
ATOM	9209	N	LEU	1364	-25.633	0.446	54.965	1.00	25.26
ATOM	9210	CA	LEU	1364	-26.690	-0.433	54.486	1.00	25.78
ATOM	9211	CB	LEU	1364	-27.940	-0.270	55.355	1.00	28.25
ATOM	9212	CG	LEU	1364	-28.877	-1.483	55.466	1.00	30.43
ATOM	9213	CD1	LEU	1364	-29.981	-1.183	56.470	1.00	33.01
ATOM	9214	CD2	LEU	1364	-29.468	-1.809	54.117	1.00	31.42
ATOM	9215	C	LEU	1364	-26.996	-0.081	53.030	1.00	24.42
ATOM	9216	O	LEU	1364	-27.124	-0.963	52.180	1.00	24.75
ATOM	9217	N	SER	1365	-27.091	1.216	52.748	1.00	24.25
ATOM	9218	CA	SER	1365	-27.372	1.696	51.399	1.00	22.74
ATOM	9219	CB	SER	1365	-27.440	3.226	51.388	1.00	25.49
ATOM	9220	OG	SER	1365	-27.711	3.713	50.085	1.00	30.28
ATOM	9221	C	SER	1365	-26.288	1.225	50.436	1.00	20.66
ATOM	9222	O	SER	1365	-26.581	0.731	49.343	1.00	17.79
ATOM	9223	N	ASP	1366	-25.033	1.397	50.841	1.00	19.04
ATOM	9224	CA	ASP	1366	-23.902	0.971	50.013	1.00	18.22
ATOM	9225	CB	ASP	1366	-22.564	1.389	50.645	1.00	19.61
ATOM	9226	CG	ASP	1366	-22.294	2.890	50.553	1.00	20.96
ATOM	9227	OD1	ASP	1366	-22.831	3.569	49.652	1.00	20.14
ATOM	9228	OD2	ASP	1366	-21.508	3.393	51.384	1.00	19.72
ATOM	9229	C	ASP	1366	-23.914	-0.547	49.824	1.00	16.69
ATOM	9230	O	ASP	1366	-23.643	-1.040	48.728	1.00	18.02
ATOM	9231	N	ALA	1367	-24.216	-1.291	50.885	1.00	15.72
ATOM	9232	CA	ALA	1367	-24.244	-2.748	50.783	1.00	16.03
ATOM	9233	CB	ALA	1367	-24.598	-3.372	52.136	1.00	16.32
ATOM	9234	C	ALA	1367	-25.245	-3.181	49.717	1.00	17.08
ATOM	9235	O	ALA	1367	-24.944	-4.032	48.878	1.00	15.80
ATOM	9236	N	LEU	1368	-26.436	-2.588	49.745	1.00	16.63
ATOM	9237	CA	LEU	1368	-27.473	-2.902	48.759	1.00	15.83
ATOM	9238	CB	LEU	1368	-28.775	-2.201	49.131	1.00	17.90
ATOM	9239	CG	LEU	1368	-29.457	-2.782	50.363	1.00	18.04
ATOM	9240	CD1	LEU	1368	-30.451	-1.771	50.910	1.00	22.56
ATOM	9241	CD2	LEU	1368	-30.137	-4.097	49.992	1.00	18.80
ATOM	9242	C	LEU	1368	-27.060	-2.475	47.360	1.00	15.44
ATOM	9243	O	LEU	1368	-27.309	-3.189	46.390	1.00	17.08
ATOM	9244	N	ALA	1369	-26.437	-1.304	47.265	1.00	15.14
ATOM	9245	CA	ALA	1369	-25.985	-0.781	45.984	1.00	15.71
ATOM	9246	CB	ALA	1369	-25.393	0.609	46.164	1.00	16.16
ATOM	9247	C	ALA	1369	-24.948	-1.714	45.372	1.00	15.06
ATOM	9248	O	ALA	1369	-24.979	-1.985	44.172	1.00	13.93
ATOM	9249	N	LEU	1370	-24.025	-2.201	46.196	1.00	15.56
ATOM	9250	CA	LEU	1370	-22.990	-3.106	45.702	1.00	15.57
ATOM	9251	CB	LEU	1370	-21.962	-3.389	46.805	1.00	17.04
ATOM	9252	CG	LEU	1370	-21.115	-2.176	47.231	1.00	17.64
ATOM	9253	CD1	LEU	1370	-20.257	-2.520	48.450	1.00	14.36
ATOM	9254	CD2	LEU	1370	-20.236	-1.745	46.077	1.00	17.55
ATOM	9255	C	LEU	1370	-23.639	-4.395	45.228	1.00	16.16
ATOM	9256	O	LEU	1370	-23.306	-4.917	44.160	1.00	14.48
ATOM	9257	N	GLU	1371	-24.573	-4.912	46.020	1.00	15.93
ATOM	9258	CA	GLU	1371	-25.269	-6.142	45.647	1.00	16.46
ATOM	9259	CB	GLU	1371	-26.264	-6.540	46.745	1.00	17.16
ATOM	9260	CG	GLU	1371	-27.134	-7.735	46.381	1.00	20.30
ATOM	9261	CD	GLU	1371	-28.084	-8.098	47.491	1.00	19.27
ATOM	9262	OE1	GLU	1371	-28.878	-7.224	47.897	1.00	18.29
ATOM	9263	OE2	GLU	1371	-28.029	-9.248	47.964	1.00	23.87
ATOM	9264	C	GLU	1371	-26.007	-5.960	44.319	1.00	16.54
ATOM	9265	O	GLU	1371	-25.894	-6.789	43.409	1.00	16.17
ATOM	9266	N	ALA	1372	-26.757	-4.869	44.205	1.00	16.06
ATOM	9267	CA	ALA	1372	-27.516	-4.601	42.987	1.00	16.73
ATOM	9268	CB	ALA	1372	-28.354	-3.328	43.161	1.00	16.45

ATOM	9269	C	ALA	1372	-26.585	-4.460	41.790	1.00	16.56
ATOM	9270	O	ALA	1372	-26.953	-4.791	40.660	1.00	15.51
ATOM	9271	N	ALA	1373	-25.377	-3.961	42.044	1.00	14.61
ATOM	9272	CA	ALA	1373	-24.382	-3.758	40.987	1.00	14.87
ATOM	9273	CB	ALA	1373	-23.253	-2.858	41.507	1.00	15.59
ATOM	9274	C	ALA	1373	-23.804	-5.077	40.477	1.00	14.66
ATOM	9275	O	ALA	1373	-23.232	-5.133	39.386	1.00	15.82
ATOM	9276	N	GLY	1374	-23.935	-6.132	41.273	1.00	14.12
ATOM	9277	CA	GLY	1374	-23.427	-7.423	40.846	1.00	14.74
ATOM	9278	C	GLY	1374	-22.460	-8.120	41.789	1.00	15.58
ATOM	9279	O	GLY	1374	-22.046	-9.250	41.513	1.00	17.25
ATOM	9280	N	ALA	1375	-22.081	-7.468	42.888	1.00	15.59
ATOM	9281	CA	ALA	1375	-21.167	-8.098	43.847	1.00	15.31
ATOM	9282	CB	ALA	1375	-20.901	-7.167	45.031	1.00	12.55
ATOM	9283	C	ALA	1375	-21.815	-9.390	44.336	1.00	15.80
ATOM	9284	O	ALA	1375	-23.000	-9.408	44.659	1.00	17.75
ATOM	9285	N	GLN	1376	-21.041	-10.469	44.393	1.00	16.08
ATOM	9286	CA	GLN	1376	-21.584	-11.756	44.825	1.00	16.60
ATOM	9287	CB	GLN	1376	-21.090	-12.857	43.887	1.00	16.95
ATOM	9288	CG	GLN	1376	-21.526	-12.625	42.441	1.00	22.74
ATOM	9289	CD	GLN	1376	-20.999	-13.668	41.484	1.00	24.07
ATOM	9290	OE1	GLN	1376	-21.457	-14.809	41.477	1.00	29.42
ATOM	9291	NE2	GLN	1376	-20.030	-13.281	40.665	1.00	27.21
ATOM	9292	C	GLN	1376	-21.217	-12.076	46.269	1.00	17.00
ATOM	9293	O	GLN	1376	-21.664	-13.079	46.829	1.00	17.05
ATOM	9294	N	LEU	1377	-20.411	-11.199	46.860	1.00	14.88
ATOM	9295	CA	LEU	1377	-19.958	-11.337	48.232	1.00	16.52
ATOM	9296	CB	LEU	1377	-18.675	-12.164	48.280	1.00	21.20
ATOM	9297	CG	LEU	1377	-18.797	-13.672	48.435	1.00	22.45
ATOM	9298	CD1	LEU	1377	-17.441	-14.317	48.174	1.00	22.86
ATOM	9299	CD2	LEU	1377	-19.279	-13.991	49.840	1.00	22.77
ATOM	9300	C	LEU	1377	-19.674	-9.964	48.807	1.00	15.17
ATOM	9301	O	LEU	1377	-19.404	-9.017	48.068	1.00	15.26
ATOM	9302	N	LEU	1378	-19.734	-9.856	50.129	1.00	15.03
ATOM	9303	CA	LEU	1378	-19.445	-8.588	50.792	1.00	15.26
ATOM	9304	CB	LEU	1378	-20.750	-7.840	51.099	1.00	15.07
ATOM	9305	CG	LEU	1378	-20.584	-6.620	52.011	1.00	15.89
ATOM	9306	CD1	LEU	1378	-19.891	-5.491	51.246	1.00	17.24
ATOM	9307	CD2	LEU	1378	-21.961	-6.154	52.507	1.00	19.57
ATOM	9308	C	LEU	1378	-18.679	-8.808	52.090	1.00	15.81
ATOM	9309	O	LEU	1378	-19.048	-9.656	52.900	1.00	16.07
ATOM	9310	N	VAL	1379	-17.599	-8.060	52.282	1.00	16.13
ATOM	9311	CA	VAL	1379	-16.845	-8.160	53.523	1.00	16.26
ATOM	9312	CB	VAL	1379	-15.297	-8.136	53.275	1.00	14.82
ATOM	9313	CG1	VAL	1379	-14.567	-7.886	54.588	1.00	14.92
ATOM	9314	CG2	VAL	1379	-14.830	-9.493	52.691	1.00	13.84
ATOM	9315	C	VAL	1379	-17.245	-6.955	54.383	1.00	16.23
ATOM	9316	O	VAL	1379	-17.366	-5.838	53.876	1.00	14.40
ATOM	9317	N	LEU	1380	-17.502	-7.200	55.667	1.00	17.52
ATOM	9318	CA	LEU	1380	-17.869	-6.150	56.626	1.00	18.33
ATOM	9319	CB	LEU	1380	-19.228	-6.426	57.264	1.00	23.25
ATOM	9320	CG	LEU	1380	-20.451	-5.763	56.649	1.00	27.26
ATOM	9321	CD1	LEU	1380	-21.679	-6.205	57.436	1.00	29.17
ATOM	9322	CD2	LEU	1380	-20.310	-4.237	56.689	1.00	28.64
ATOM	9323	C	LEU	1380	-16.820	-6.151	57.729	1.00	17.93
ATOM	9324	O	LEU	1380	-16.671	-7.142	58.438	1.00	17.27
ATOM	9325	N	GLU	1381	-16.126	-5.032	57.901	1.00	18.24
ATOM	9326	CA	GLU	1381	-15.058	-4.951	58.890	1.00	18.15
ATOM	9327	CB	GLU	1381	-13.735	-4.706	58.154	1.00	19.99
ATOM	9328	CG	GLU	1381	-12.535	-4.399	59.042	1.00	19.58
ATOM	9329	CD	GLU	1381	-11.214	-4.485	58.288	1.00	21.41
ATOM	9330	OE1	GLU	1381	-11.236	-4.456	57.042	1.00	20.29
ATOM	9331	OE2	GLU	1381	-10.152	-4.579	58.939	1.00	22.00
ATOM	9332	C	GLU	1381	-15.222	-3.910	59.995	1.00	18.95
ATOM	9333	O	GLU	1381	-15.451	-2.733	59.725	1.00	17.56
ATOM	9334	N	CYS	1382	-15.094	-4.355	61.242	1.00	18.95
ATOM	9335	CA	CYS	1382	-15.168	-3.456	62.388	1.00	20.18
ATOM	9336	CB	CYS	1382	-13.858	-2.676	62.501	1.00	20.94
ATOM	9337	SG	CYS	1382	-12.444	-3.736	62.885	1.00	25.87
ATOM	9338	C	CYS	1382	-16.344	-2.488	62.383	1.00	19.45
ATOM	9339	O	CYS	1382	-16.181	-1.279	62.191	1.00	19.01
ATOM	9340	N	VAL	1383	-17.523	-3.038	62.631	1.00	20.89
ATOM	9341	CA	VAL	1383	-18.753	-2.272	62.665	1.00	21.85
ATOM	9342	CB	VAL	1383	-19.513	-2.440	61.324	1.00	23.50
ATOM	9343	CG1	VAL	1383	-20.222	-3.785	61.286	1.00	18.79
ATOM	9344	CG2	VAL	1383	-20.471	-1.295	61.113	1.00	26.50
ATOM	9345	C	VAL	1383	-19.576	-2.863	63.809	1.00	22.30

ATOM	9346	O	VAL	1383	-19.434	-4.042	64.131	1.00	22.63
ATOM	9347	N	PRO	1384	-20.432	-2.050	64.454	1.00	22.70
ATOM	9348	CD	PRO	1384	-20.747	-0.631	64.237	1.00	21.90
ATOM	9349	CA	PRO	1384	-21.231	-2.608	65.548	1.00	23.71
ATOM	9350	CB	PRO	1384	-22.140	-1.441	65.952	1.00	24.27
ATOM	9351	CG	PRO	1384	-22.162	-0.556	64.735	1.00	26.55
ATOM	9352	C	PRO	1384	-22.009	-3.841	65.101	1.00	24.45
ATOM	9353	O	PRO	1384	-22.470	-3.914	63.961	1.00	23.74
ATOM	9354	N	VAL	1385	-22.140	-4.808	66.003	1.00	24.71
ATOM	9355	CA	VAL	1385	-22.856	-6.050	65.727	1.00	26.23
ATOM	9356	CB	VAL	1385	-22.984	-6.917	66.991	1.00	27.89
ATOM	9357	CG1	VAL	1385	-23.606	-8.261	66.632	1.00	27.76
ATOM	9358	CG2	VAL	1385	-21.626	-7.101	67.635	1.00	29.95
ATOM	9359	C	VAL	1385	-24.263	-5.783	65.219	1.00	27.91
ATOM	9360	O	VAL	1385	-24.772	-6.513	64.366	1.00	27.26
ATOM	9361	N	GLU	1386	-24.884	-4.734	65.754	1.00	27.87
ATOM	9362	CA	GLU	1386	-26.241	-4.372	65.367	1.00	30.32
ATOM	9363	CB	GLU	1386	-26.717	-3.129	66.133	1.00	31.48
ATOM	9364	CG	GLU	1386	-26.182	-2.988	67.553	1.00	37.12
ATOM	9365	CD	GLU	1386	-26.077	-4.309	68.280	1.00	39.44
ATOM	9366	OE1	GLU	1386	-27.084	-5.051	68.325	1.00	42.32
ATOM	9367	OE2	GLU	1386	-24.984	-4.599	68.810	1.00	40.64
ATOM	9368	C	GLU	1386	-26.291	-4.088	63.872	1.00	29.04
ATOM	9369	O	GLU	1386	-27.157	-4.601	63.168	1.00	29.05
ATOM	9370	N	LEU	1387	-25.353	-3.271	63.396	1.00	27.86
ATOM	9371	CA	LEU	1387	-25.290	-2.912	61.982	1.00	26.77
ATOM	9372	CB	LEU	1387	-24.193	-1.870	61.740	1.00	29.38
ATOM	9373	CG	LEU	1387	-24.497	-0.767	60.722	1.00	31.48
ATOM	9374	CD1	LEU	1387	-23.294	0.148	60.577	1.00	29.59
ATOM	9375	CD2	LEU	1387	-24.876	-1.369	59.391	1.00	33.03
ATOM	9376	C	LEU	1387	-25.019	-4.148	61.128	1.00	26.22
ATOM	9377	O	LEU	1387	-25.637	-4.338	60.079	1.00	24.83
ATOM	9378	N	ALA	1388	-24.082	-4.982	61.572	1.00	24.74
ATOM	9379	CA	ALA	1388	-23.758	-6.199	60.846	1.00	23.61
ATOM	9380	CB	ALA	1388	-22.736	-7.022	61.625	1.00	21.94
ATOM	9381	C	ALA	1388	-25.041	-7.002	60.648	1.00	23.83
ATOM	9382	O	ALA	1388	-25.301	-7.517	59.560	1.00	20.30
ATOM	9383	N	LYS	1389	-25.844	-7.096	61.705	1.00	25.43
ATOM	9384	CA	LYS	1389	-27.114	-7.824	61.656	1.00	27.87
ATOM	9385	CB	LYS	1389	-27.853	-7.694	62.992	1.00	32.12
ATOM	9386	CG	LYS	1389	-27.057	-8.133	64.203	1.00	38.20
ATOM	9387	CD	LYS	1389	-27.773	-7.773	65.500	1.00	41.46
ATOM	9388	CE	LYS	1389	-26.986	-8.255	66.710	1.00	43.04
ATOM	9389	NZ	LYS	1389	-27.588	-7.817	67.999	1.00	44.99
ATOM	9390	C	LYS	1389	-27.999	-7.252	60.556	1.00	26.60
ATOM	9391	O	LYS	1389	-28.522	-7.984	59.716	1.00	26.86
ATOM	9392	N	ARG	1390	-28.160	-5.932	60.580	1.00	26.01
ATOM	9393	CA	ARG	1390	-28.980	-5.216	59.608	1.00	25.62
ATOM	9394	CB	ARG	1390	-28.846	-3.704	59.830	1.00	28.15
ATOM	9395	CG	ARG	1390	-28.910	-3.255	61.284	1.00	33.06
ATOM	9396	CD	ARG	1390	-30.061	-2.299	61.530	1.00	31.58
ATOM	9397	NE	ARG	1390	-30.047	-1.150	60.627	1.00	34.15
ATOM	9398	CZ	ARG	1390	-29.289	-0.068	60.782	1.00	33.40
ATOM	9399	NH1	ARG	1390	-28.466	0.031	61.818	1.00	35.42
ATOM	9400	NH2	ARG	1390	-29.361	0.924	59.901	1.00	33.81
ATOM	9401	C	ARG	1390	-28.566	-5.541	58.175	1.00	24.93
ATOM	9402	O	ARG	1390	-29.394	-5.896	57.332	1.00	21.80
ATOM	9403	N	ILE	1391	-27.271	-5.407	57.904	1.00	24.32
ATOM	9404	CA	ILE	1391	-26.736	-5.663	56.570	1.00	23.53
ATOM	9405	CB	ILE	1391	-25.248	-5.277	56.501	1.00	24.79
ATOM	9406	CG2	ILE	1391	-24.677	-5.627	55.130	1.00	22.88
ATOM	9407	CG1	ILE	1391	-25.098	-3.779	56.789	1.00	24.38
ATOM	9408	CD1	ILE	1391	-23.661	-3.314	56.863	1.00	30.37
ATOM	9409	C	ILE	1391	-26.900	-7.114	56.125	1.00	23.92
ATOM	9410	O	ILE	1391	-27.323	-7.383	55.001	1.00	22.87
ATOM	9411	N	THR	1392	-26.570	-8.053	57.003	1.00	23.07
ATOM	9412	CA	THR	1392	-26.691	-9.463	56.654	1.00	24.09
ATOM	9413	CB	THR	1392	-26.165	-10.362	57.801	1.00	25.31
ATOM	9414	OG1	THR	1392	-24.790	-10.043	58.052	1.00	24.75
ATOM	9415	CG2	THR	1392	-26.263	-11.842	57.424	1.00	21.60
ATOM	9416	C	THR	1392	-28.133	-9.844	56.309	1.00	25.62
ATOM	9417	O	THR	1392	-28.371	-10.658	55.411	1.00	24.15
ATOM	9418	N	GLU	1393	-29.095	-9.253	57.013	1.00	25.81
ATOM	9419	CA	GLU	1393	-30.505	-9.540	56.754	1.00	28.50
ATOM	9420	CB	GLU	1393	-31.358	-9.159	57.966	1.00	30.65
ATOM	9421	CG	GLU	1393	-31.271	-10.140	59.124	1.00	35.02
ATOM	9422	CD	GLU	1393	-32.129	-9.716	60.300	1.00	38.65

ATOM	9423	OE1	GLU	1393	-33.335	-9.449	60.089	1.00	40.37
ATOM	9424	OE2	GLU	1393	-31.602	-9.652	61.435	1.00	39.76
ATOM	9425	C	GLU	1393	-31.038	-8.818	55.520	1.00	27.06
ATOM	9426	O	GLU	1393	-31.907	-9.337	54.820	1.00	28.64
ATOM	9427	N	ALA	1394	-30.515	-7.627	55.254	1.00	24.47
ATOM	9428	CA	ALA	1394	-30.961	-6.847	54.110	1.00	24.04
ATOM	9429	CB	ALA	1394	-30.508	-5.394	54.265	1.00	22.66
ATOM	9430	C	ALA	1394	-30.467	-7.411	52.782	1.00	24.13
ATOM	9431	O	ALA	1394	-31.165	-7.322	51.768	1.00	22.55
ATOM	9432	N	LEU	1395	-29.270	-7.995	52.790	1.00	23.16
ATOM	9433	CA	LEU	1395	-28.682	-8.551	51.571	1.00	22.35
ATOM	9434	CB	LEU	1395	-27.169	-8.307	51.557	1.00	23.06
ATOM	9435	CG	LEU	1395	-26.678	-6.859	51.608	1.00	24.33
ATOM	9436	CD1	LEU	1395	-25.165	-6.854	51.357	1.00	23.88
ATOM	9437	CD2	LEU	1395	-27.386	-6.016	50.579	1.00	26.78
ATOM	9438	C	LEU	1395	-28.939	-10.036	51.352	1.00	20.89
ATOM	9439	O	LEU	1395	-28.995	-10.815	52.298	1.00	20.06
ATOM	9440	N	ALA	1396	-29.091	-10.416	50.085	1.00	20.42
ATOM	9441	CA	ALA	1396	-29.330	-11.805	49.716	1.00	21.29
ATOM	9442	CB	ALA	1396	-30.126	-11.871	48.413	1.00	19.07
ATOM	9443	C	ALA	1396	-28.005	-12.548	49.552	1.00	20.66
ATOM	9444	O	ALA	1396	-27.916	-13.753	49.809	1.00	19.21
ATOM	9445	N	ILE	1397	-26.976	-11.823	49.116	1.00	19.78
ATOM	9446	CA	ILE	1397	-25.650	-12.405	48.933	1.00	20.20
ATOM	9447	CB	ILE	1397	-24.721	-11.463	48.134	1.00	19.10
ATOM	9448	CG2	ILE	1397	-25.280	-11.237	46.742	1.00	19.43
ATOM	9449	CG1	ILE	1397	-24.561	-10.139	48.875	1.00	17.71
ATOM	9450	CD1	ILE	1397	-23.568	-9.181	48.227	1.00	18.82
ATOM	9451	C	ILE	1397	-25.020	-12.649	50.299	1.00	20.56
ATOM	9452	O	ILE	1397	-25.389	-12.008	51.282	1.00	21.78
ATOM	9453	N	PRO	1398	-24.066	-13.586	50.381	1.00	22.06
ATOM	9454	CD	PRO	1398	-23.622	-14.529	49.342	1.00	22.24
ATOM	9455	CA	PRO	1398	-23.419	-13.871	51.661	1.00	22.34
ATOM	9456	CB	PRO	1398	-22.633	-15.150	51.373	1.00	23.09
ATOM	9457	CG	PRO	1398	-22.353	-15.057	49.917	1.00	26.50
ATOM	9458	C	PRO	1398	-22.546	-12.728	52.168	1.00	21.87
ATOM	9459	O	PRO	1398	-21.840	-12.075	51.394	1.00	21.73
ATOM	9460	N	VAL	1399	-22.621	-12.479	53.472	1.00	21.04
ATOM	9461	CA	VAL	1399	-21.845	-11.423	54.102	1.00	20.62
ATOM	9462	CB	VAL	1399	-22.750	-10.465	54.918	1.00	21.23
ATOM	9463	CG1	VAL	1399	-21.906	-9.373	55.569	1.00	20.53
ATOM	9464	CG2	VAL	1399	-23.796	-9.833	54.007	1.00	21.96
ATOM	9465	C	VAL	1399	-20.793	-12.033	55.021	1.00	20.44
ATOM	9466	O	VAL	1399	-21.115	-12.798	55.938	1.00	19.55
ATOM	9467	N	ILE	1400	-19.536	-11.694	54.751	1.00	20.90
ATOM	9468	CA	ILE	1400	-18.392	-12.181	55.522	1.00	19.21
ATOM	9469	CB	ILE	1400	-17.218	-12.559	54.590	1.00	20.36
ATOM	9470	CG2	ILE	1400	-16.008	-12.966	55.418	1.00	20.56
ATOM	9471	CG1	ILE	1400	-17.643	-13.705	53.668	1.00	22.22
ATOM	9472	CD1	ILE	1400	-16.590	-14.082	52.643	1.00	24.06
ATOM	9473	C	ILE	1400	-17.924	-11.083	56.462	1.00	19.24
ATOM	9474	O	ILE	1400	-17.585	-9.985	56.026	1.00	17.97
ATOM	9475	N	GLY	1401	-17.898	-11.380	57.754	1.00	17.48
ATOM	9476	CA	GLY	1401	-17.484	-10.368	58.700	1.00	17.76
ATOM	9477	C	GLY	1401	-16.182	-10.615	59.429	1.00	17.82
ATOM	9478	O	GLY	1401	-15.731	-11.746	59.583	1.00	18.37
ATOM	9479	N	ILE	1402	-15.567	-9.519	59.846	1.00	17.14
ATOM	9480	CA	ILE	1402	-14.342	-9.549	60.622	1.00	19.20
ATOM	9481	CB	ILE	1402	-13.061	-9.437	59.731	1.00	17.10
ATOM	9482	CG2	ILE	1402	-13.207	-8.319	58.708	1.00	19.67
ATOM	9483	CG1	ILE	1402	-11.844	-9.222	60.626	1.00	22.25
ATOM	9484	CD1	ILE	1402	-10.521	-9.488	59.939	1.00	21.22
ATOM	9485	C	ILE	1402	-14.477	-8.359	61.562	1.00	17.66
ATOM	9486	O	ILE	1402	-14.489	-7.202	61.134	1.00	21.00
ATOM	9487	N	GLY	1403	-14.616	-8.646	62.849	1.00	18.73
ATOM	9488	CA	GLY	1403	-14.800	-7.572	63.805	1.00	19.62
ATOM	9489	C	GLY	1403	-16.208	-7.017	63.675	1.00	20.89
ATOM	9490	O	GLY	1403	-16.457	-5.837	63.934	1.00	20.69
ATOM	9491	N	ALA	1404	-17.137	-7.871	63.259	1.00	20.95
ATOM	9492	CA	ALA	1404	-18.529	-7.452	63.100	1.00	22.83
ATOM	9493	CB	ALA	1404	-18.881	-7.354	61.614	1.00	24.62
ATOM	9494	C	ALA	1404	-19.502	-8.391	63.807	1.00	24.35
ATOM	9495	O	ALA	1404	-20.706	-8.344	63.558	1.00	24.70
ATOM	9496	N	GLY	1405	-18.980	-9.246	64.685	1.00	24.62
ATOM	9497	CA	GLY	1405	-19.833	-10.170	65.411	1.00	25.54
ATOM	9498	C	GLY	1405	-20.075	-11.478	64.683	1.00	26.30
ATOM	9499	O	GLY	1405	-19.573	-11.681	63.581	1.00	27.10

ATOM	9500	N	ASN	1406	-20.854	-12.367	65.297	1.00	25.69
ATOM	9501	CA	ASN	1406	-21.149	-13.670	64.701	1.00	25.78
ATOM	9502	CB	ASN	1406	-21.144	-14.756	65.781	1.00	26.59
ATOM	9503	CG	ASN	1406	-22.323	-14.641	66.745	1.00	28.85
ATOM	9504	OD1	ASN	1406	-22.638	-15.586	67.470	1.00	29.88
ATOM	9505	ND2	ASN	1406	-22.972	-13.481	66.760	1.00	25.54
ATOM	9506	C	ASN	1406	-22.481	-13.713	63.952	1.00	24.77
ATOM	9507	O	ASN	1406	-22.956	-14.787	63.579	1.00	25.44
ATOM	9508	N	VAL	1407	-23.071	-12.541	63.725	1.00	24.74
ATOM	9509	CA	VAL	1407	-24.354	-12.434	63.033	1.00	25.37
ATOM	9510	CB	VAL	1407	-25.064	-11.118	63.402	1.00	25.71
ATOM	9511	CG1	VAL	1407	-26.505	-11.144	62.893	1.00	31.10
ATOM	9512	CG2	VAL	1407	-25.040	-10.917	64.913	1.00	27.35
ATOM	9513	C	VAL	1407	-24.224	-12.497	61.512	1.00	25.31
ATOM	9514	O	VAL	1407	-25.223	-12.591	60.790	1.00	24.78
ATOM	9515	N	THR	1408	-22.991	-12.437	61.024	1.00	23.39
ATOM	9516	CA	THR	1408	-22.753	-12.490	59.591	1.00	21.03
ATOM	9517	CB	THR	1408	-21.375	-11.874	59.238	1.00	20.01
ATOM	9518	OG1	THR	1408	-20.354	-12.456	60.064	1.00	19.12
ATOM	9519	CG2	THR	1408	-21.401	-10.382	59.460	1.00	17.17
ATOM	9520	C	THR	1408	-22.813	-13.927	59.104	1.00	21.73
ATOM	9521	O	THR	1408	-22.821	-14.867	59.908	1.00	24.16
ATOM	9522	N	ASP	1409	-22.874	-14.090	57.785	1.00	19.78
ATOM	9523	CA	ASP	1409	-22.942	-15.406	57.157	1.00	19.91
ATOM	9524	CB	ASP	1409	-23.371	-15.268	55.696	1.00	21.36
ATOM	9525	CG	ASP	1409	-24.712	-14.600	55.553	1.00	22.44
ATOM	9526	OD1	ASP	1409	-25.693	-15.136	56.107	1.00	22.97
ATOM	9527	OD2	ASP	1409	-24.786	-13.536	54.899	1.00	25.06
ATOM	9528	C	ASP	1409	-21.600	-16.112	57.211	1.00	19.51
ATOM	9529	O	ASP	1409	-21.533	-17.342	57.236	1.00	18.44
ATOM	9530	N	GLY	1410	-20.534	-15.323	57.219	1.00	21.88
ATOM	9531	CA	GLY	1410	-19.204	-15.899	57.269	1.00	20.44
ATOM	9532	C	GLY	1410	-18.249	-15.097	58.124	1.00	19.85
ATOM	9533	O	GLY	1410	-18.589	-14.013	58.594	1.00	18.97
ATOM	9534	N	GLN	1411	-17.050	-15.643	58.322	1.00	19.88
ATOM	9535	CA	GLN	1411	-16.011	-15.002	59.116	1.00	20.00
ATOM	9536	CB	GLN	1411	-15.817	-15.730	60.447	1.00	19.91
ATOM	9537	CG	GLN	1411	-16.981	-15.636	61.417	1.00	19.40
ATOM	9538	CD	GLN	1411	-17.301	-14.209	61.801	1.00	16.91
ATOM	9539	OE1	GLN	1411	-16.414	-13.434	62.153	1.00	18.73
ATOM	9540	NE2	GLN	1411	-18.578	-13.859	61.752	1.00	18.43
ATOM	9541	C	GLN	1411	-14.676	-15.014	58.382	1.00	20.57
ATOM	9542	O	GLN	1411	-14.421	-15.889	57.558	1.00	19.66
ATOM	9543	N	ILE	1412	-13.824	-14.046	58.697	1.00	22.26
ATOM	9544	CA	ILE	1412	-12.501	-13.973	58.097	1.00	23.53
ATOM	9545	CB	ILE	1412	-12.530	-13.154	56.776	1.00	23.95
ATOM	9546	CG2	ILE	1412	-12.737	-11.675	57.075	1.00	24.56
ATOM	9547	CG1	ILE	1412	-11.227	-13.360	56.010	1.00	25.80
ATOM	9548	CD1	ILE	1412	-11.316	-12.973	54.543	1.00	25.24
ATOM	9549	C	ILE	1412	-11.536	-13.335	59.097	1.00	25.52
ATOM	9550	O	ILE	1412	-11.952	-12.627	60.014	1.00	23.69
ATOM	9551	N	LEU	1413	-10.248	-13.607	58.933	1.00	27.48
ATOM	9552	CA	LEU	1413	-9.243	-13.032	59.815	1.00	28.85
ATOM	9553	CB	LEU	1413	-9.351	-13.635	61.216	1.00	34.02
ATOM	9554	CG	LEU	1413	-9.299	-12.665	62.403	1.00	37.41
ATOM	9555	CD1	LEU	1413	-9.200	-13.472	63.680	1.00	39.43
ATOM	9556	CD2	LEU	1413	-8.100	-11.718	62.283	1.00	39.02
ATOM	9557	C	LEU	1413	-7.863	-13.315	59.243	1.00	28.57
ATOM	9558	O	LEU	1413	-7.692	-14.259	58.470	1.00	25.03
ATOM	9559	N	VAL	1414	-6.890	-12.485	59.610	1.00	29.11
ATOM	9560	CA	VAL	1414	-5.520	-12.662	59.147	1.00	29.08
ATOM	9561	CB	VAL	1414	-4.638	-11.435	59.483	1.00	30.55
ATOM	9562	CG1	VAL	1414	-3.238	-11.628	58.900	1.00	31.68
ATOM	9563	CG2	VAL	1414	-5.277	-10.165	58.928	1.00	31.09
ATOM	9564	C	VAL	1414	-4.961	-13.880	59.863	1.00	28.58
ATOM	9565	O	VAL	1414	-4.936	-13.928	61.092	1.00	28.63
ATOM	9566	N	MET	1415	-4.525	-14.865	59.087	1.00	26.58
ATOM	9567	CA	MET	1415	-3.976	-16.096	59.644	1.00	25.18
ATOM	9568	CB	MET	1415	-3.386	-16.959	58.527	1.00	21.68
ATOM	9569	CG	MET	1415	-2.253	-16.306	57.777	1.00	20.54
ATOM	9570	SD	MET	1415	-1.043	-17.545	57.300	1.00	21.74
ATOM	9571	CE	MET	1415	-0.091	-17.623	58.832	1.00	21.73
ATOM	9572	C	MET	1415	-2.912	-15.850	60.713	1.00	25.50
ATOM	9573	O	MET	1415	-2.793	-16.614	61.671	1.00	25.46
ATOM	9574	N	HIS	1416	-2.144	-14.778	60.548	1.00	25.98
ATOM	9575	CA	HIS	1416	-1.089	-14.440	61.496	1.00	27.03
ATOM	9576	CB	HIS	1416	-0.294	-13.242	60.974	1.00	26.14

ATOM	9577	CG	HIS	1416	0.482	-13.542	59.726	1.00	26.99
ATOM	9578	CD2	HIS	1416	0.121	-13.513	58.421	1.00	25.19
ATOM	9579	ND1	HIS	1416	1.782	-14.002	59.750	1.00	25.73
ATOM	9580	CE1	HIS	1416	2.188	-14.243	58.517	1.00	24.78
ATOM	9581	NE2	HIS	1416	1.198	-13.954	57.690	1.00	27.44
ATOM	9582	C	HIS	1416	-1.651	-14.163	62.889	1.00	28.75
ATOM	9583	O	HIS	1416	-1.076	-14.598	63.887	1.00	27.94
ATOM	9584	N	ASP	1417	-2.773	-13.449	62.966	1.00	29.75
ATOM	9585	CA	ASP	1417	-3.386	-13.156	64.262	1.00	33.00
ATOM	9586	CB	ASP	1417	-4.458	-12.069	64.134	1.00	34.18
ATOM	9587	CG	ASP	1417	-3.886	-10.733	63.731	1.00	37.67
ATOM	9588	OD1	ASP	1417	-2.900	-10.292	64.361	1.00	39.25
ATOM	9589	OD2	ASP	1417	-4.429	-10.114	62.788	1.00	40.11
ATOM	9590	C	ASP	1417	-4.025	-14.408	64.848	1.00	33.09
ATOM	9591	O	ASP	1417	-4.130	-14.549	66.067	1.00	34.61
ATOM	9592	N	ALA	1418	-4.455	-15.312	63.974	1.00	34.01
ATOM	9593	CA	ALA	1418	-5.094	-16.552	64.399	1.00	35.06
ATOM	9594	CB	ALA	1418	-5.800	-17.207	63.208	1.00	34.52
ATOM	9595	C	ALA	1418	-4.110	-17.535	65.034	1.00	36.11
ATOM	9596	O	ALA	1418	-4.524	-18.505	65.671	1.00	36.84
ATOM	9597	N	PHE	1419	-2.813	-17.287	64.863	1.00	36.18
ATOM	9598	CA	PHE	1419	-1.791	-18.161	65.436	1.00	36.22
ATOM	9599	CB	PHE	1419	-0.999	-18.849	64.322	1.00	37.87
ATOM	9600	CG	PHE	1419	-1.861	-19.607	63.349	1.00	39.07
ATOM	9601	CD1	PHE	1419	-2.859	-20.465	63.806	1.00	38.80
ATOM	9602	CD2	PHE	1419	-1.671	-19.472	61.978	1.00	39.70
ATOM	9603	CE1	PHE	1419	-3.654	-21.176	62.914	1.00	39.60
ATOM	9604	CE2	PHE	1419	-2.461	-20.180	61.075	1.00	39.92
ATOM	9605	CZ	PHE	1419	-3.456	-21.035	61.546	1.00	40.35
ATOM	9606	C	PHE	1419	-0.838	-17.412	66.369	1.00	35.97
ATOM	9607	O	PHE	1419	0.267	-17.880	66.660	1.00	35.74
ATOM	9608	N	GLY	1420	-1.278	-16.245	66.832	1.00	35.56
ATOM	9609	CA	GLY	1420	-0.472	-15.444	67.739	1.00	34.95
ATOM	9610	C	GLY	1420	0.900	-15.079	67.205	1.00	34.01
ATOM	9611	O	GLY	1420	1.762	-14.622	67.960	1.00	33.90
ATOM	9612	N	ILE	1421	1.112	-15.278	65.908	1.00	31.41
ATOM	9613	CA	ILE	1421	2.394	-14.950	65.299	1.00	28.98
ATOM	9614	CB	ILE	1421	2.423	-15.367	63.804	1.00	28.18
ATOM	9615	CG2	ILE	1421	3.732	-14.925	63.156	1.00	24.57
ATOM	9616	CG1	ILE	1421	2.264	-16.880	63.689	1.00	26.51
ATOM	9617	CD1	ILE	1421	2.034	-17.371	62.278	1.00	26.39
ATOM	9618	C	ILE	1421	2.626	-13.447	65.411	1.00	29.18
ATOM	9619	O	ILE	1421	3.716	-12.999	65.761	1.00	27.59
ATOM	9620	N	THR	1422	1.577	-12.676	65.143	1.00	30.56
ATOM	9621	CA	THR	1422	1.654	-11.222	65.195	1.00	33.09
ATOM	9622	CB	THR	1422	0.315	-10.585	64.796	1.00	34.07
ATOM	9623	OG1	THR	1422	-0.711	-11.042	65.685	1.00	35.73
ATOM	9624	CG2	THR	1422	-0.045	-10.961	63.372	1.00	31.21
ATOM	9625	C	THR	1422	2.055	-10.658	66.552	1.00	35.46
ATOM	9626	O	THR	1422	1.761	-11.245	67.594	1.00	33.19
ATOM	9627	N	GLY	1423	2.716	-9.503	66.502	1.00	38.12
ATOM	9628	CA	GLY	1423	3.187	-8.802	67.682	1.00	42.38
ATOM	9629	C	GLY	1423	2.958	-9.491	69.005	1.00	44.65
ATOM	9630	O	GLY	1423	3.540	-10.541	69.273	1.00	47.25
ATOM	9631	N	GLY	1424	2.113	-8.894	69.838	1.00	45.54
ATOM	9632	CA	GLY	1424	1.826	-9.478	71.133	1.00	46.73
ATOM	9633	C	GLY	1424	0.367	-9.366	71.525	1.00	47.44
ATOM	9634	O	GLY	1424	-0.242	-10.347	71.953	1.00	48.03
ATOM	9635	N	HIS	1425	-0.202	-8.174	71.378	1.00	47.09
ATOM	9636	CA	HIS	1425	-1.597	-7.968	71.745	1.00	48.66
ATOM	9637	CB	HIS	1425	-1.732	-6.705	72.598	1.00	50.45
ATOM	9638	CG	HIS	1425	-2.977	-6.666	73.427	1.00	52.26
ATOM	9639	CD2	HIS	1425	-3.834	-5.654	73.701	1.00	53.70
ATOM	9640	ND1	HIS	1425	-3.434	-7.756	74.136	1.00	53.03
ATOM	9641	CE1	HIS	1425	-4.518	-7.418	74.812	1.00	52.99
ATOM	9642	NE2	HIS	1425	-4.781	-6.148	74.566	1.00	54.24
ATOM	9643	C	HIS	1425	-2.485	-7.868	70.511	1.00	47.46
ATOM	9644	O	HIS	1425	-2.627	-6.802	69.917	1.00	46.90
ATOM	9645	N	ILE	1426	-3.078	-8.993	70.129	1.00	47.14
ATOM	9646	CA	ILE	1426	-3.942	-9.039	68.960	1.00	46.99
ATOM	9647	CB	ILE	1426	-4.374	-10.485	68.648	1.00	47.44
ATOM	9648	CG2	ILE	1426	-3.160	-11.313	68.259	1.00	49.26
ATOM	9649	CG1	ILE	1426	-5.069	-11.098	69.860	1.00	47.01
ATOM	9650	CD1	ILE	1426	-5.604	-12.486	69.606	1.00	47.10
ATOM	9651	C	ILE	1426	-5.184	-8.177	69.148	1.00	45.31
ATOM	9652	O	ILE	1426	-5.532	-7.801	70.271	1.00	45.25
ATOM	9653	N	PRO	1427	-5.868	-7.844	68.043	1.00	44.13

ATOM	9654	CD	PRO	1427	-5.581	-8.236	66.652	1.00	43.74
ATOM	9655	CA	PRO	1427	-7.078	-7.020	68.112	1.00	42.56
ATOM	9656	CB	PRO	1427	-7.414	-6.784	66.642	1.00	42.85
ATOM	9657	CG	PRO	1427	-6.925	-8.038	65.989	1.00	44.37
ATOM	9658	C	PRO	1427	-8.212	-7.703	68.870	1.00	40.69
ATOM	9659	O	PRO	1427	-8.274	-8.928	68.941	1.00	39.71
ATOM	9660	N	LYS	1428	-9.105	-6.899	69.436	1.00	39.55
ATOM	9661	CA	LYS	1428	-10.238	-7.422	70.189	1.00	38.02
ATOM	9662	CB	LYS	1428	-11.155	-6.274	70.631	1.00	40.74
ATOM	9663	CG	LYS	1428	-10.693	-5.483	71.860	1.00	44.43
ATOM	9664	CD	LYS	1428	-9.402	-4.698	71.629	1.00	46.69
ATOM	9665	CE	LYS	1428	-8.168	-5.494	72.046	1.00	47.27
ATOM	9666	NZ	LYS	1428	-6.917	-4.715	71.829	1.00	48.13
ATOM	9667	C	LYS	1428	-11.065	-8.451	69.418	1.00	35.07
ATOM	9668	O	LYS	1428	-11.557	-9.417	69.999	1.00	33.86
ATOM	9669	N	PHE	1429	-11.213	-8.250	68.112	1.00	32.23
ATOM	9670	CA	PHE	1429	-12.014	-9.159	67.293	1.00	28.78
ATOM	9671	CB	PHE	1429	-12.484	-8.430	66.027	1.00	27.62
ATOM	9672	CG	PHE	1429	-11.366	-7.984	65.131	1.00	24.25
ATOM	9673	CD1	PHE	1429	-10.713	-8.895	64.304	1.00	23.47
ATOM	9674	CD2	PHE	1429	-10.962	-6.654	65.116	1.00	22.84
ATOM	9675	CE1	PHE	1429	-9.673	-8.489	63.476	1.00	21.56
ATOM	9676	CE2	PHE	1429	-9.922	-6.237	64.293	1.00	23.95
ATOM	9677	CZ	PHE	1429	-9.276	-7.156	63.469	1.00	24.89
ATOM	9678	C	PHE	1429	-11.314	-10.463	66.914	1.00	28.44
ATOM	9679	O	PHE	1429	-11.952	-11.388	66.424	1.00	26.30
ATOM	9680	N	ALA	1430	-10.008	-10.534	67.149	1.00	28.50
ATOM	9681	CA	ALA	1430	-9.236	-11.726	66.816	1.00	29.62
ATOM	9682	CB	ALA	1430	-7.854	-11.325	66.325	1.00	29.24
ATOM	9683	C	ALA	1430	-9.106	-12.685	67.998	1.00	31.64
ATOM	9684	O	ALA	1430	-9.332	-12.311	69.150	1.00	31.63
ATOM	9685	N	LYS	1431	-8.741	-13.927	67.695	1.00	31.81
ATOM	9686	CA	LYS	1431	-8.561	-14.949	68.712	1.00	32.80
ATOM	9687	CB	LYS	1431	-9.847	-15.759	68.891	1.00	33.38
ATOM	9688	CG	LYS	1431	-9.731	-16.878	69.916	1.00	35.77
ATOM	9689	CD	LYS	1431	-11.042	-17.633	70.055	1.00	36.57
ATOM	9690	CE	LYS	1431	-10.902	-18.805	70.998	1.00	37.40
ATOM	9691	NZ	LYS	1431	-12.189	-19.531	71.174	1.00	38.32
ATOM	9692	C	LYS	1431	-7.420	-15.886	68.331	1.00	33.12
ATOM	9693	O	LYS	1431	-7.379	-16.414	67.213	1.00	32.77
ATOM	9694	N	ASN	1432	-6.496	-16.085	69.266	1.00	31.72
ATOM	9695	CA	ASN	1432	-5.350	-16.962	69.054	1.00	30.83
ATOM	9696	CB	ASN	1432	-4.260	-16.655	70.087	1.00	29.88
ATOM	9697	CG	ASN	1432	-2.995	-17.463	69.860	1.00	28.49
ATOM	9698	OD1	ASN	1432	-3.046	-18.600	69.378	1.00	27.87
ATOM	9699	ND2	ASN	1432	-1.856	-16.889	70.223	1.00	26.41
ATOM	9700	C	ASN	1432	-5.814	-18.403	69.225	1.00	30.31
ATOM	9701	O	ASN	1432	-5.917	-18.893	70.347	1.00	32.09
ATOM	9702	N	PHE	1433	-6.095	-19.078	68.115	1.00	30.31
ATOM	9703	CA	PHE	1433	-6.553	-20.463	68.164	1.00	30.25
ATOM	9704	CB	PHE	1433	-7.293	-20.840	66.878	1.00	31.29
ATOM	9705	CG	PHE	1433	-8.609	-20.144	66.706	1.00	32.82
ATOM	9706	CD1	PHE	1433	-8.682	-18.899	66.095	1.00	32.79
ATOM	9707	CD2	PHE	1433	-9.781	-20.737	67.160	1.00	33.56
ATOM	9708	CE1	PHE	1433	-9.907	-18.254	65.936	1.00	34.13
ATOM	9709	CE2	PHE	1433	-11.007	-20.102	67.007	1.00	34.37
ATOM	9710	CZ	PHE	1433	-11.072	-18.858	66.394	1.00	34.19
ATOM	9711	C	PHE	1433	-5.415	-21.449	68.383	1.00	30.90
ATOM	9712	O	PHE	1433	-5.652	-22.634	68.616	1.00	30.90
ATOM	9713	N	LEU	1434	-4.179	-20.969	68.293	1.00	31.92
ATOM	9714	CA	LEU	1434	-3.034	-21.847	68.501	1.00	33.45
ATOM	9715	CB	LEU	1434	-1.783	-21.276	67.834	1.00	30.12
ATOM	9716	CG	LEU	1434	-0.507	-22.124	67.974	1.00	28.48
ATOM	9717	CD1	LEU	1434	-0.732	-23.515	67.385	1.00	24.04
ATOM	9718	CD2	LEU	1434	0.646	-21.422	67.263	1.00	29.29
ATOM	9719	C	LEU	1434	-2.792	-22.008	69.997	1.00	35.53
ATOM	9720	O	LEU	1434	-2.528	-23.109	70.472	1.00	35.29
ATOM	9721	N	ALA	1435	-2.890	-20.903	70.731	1.00	39.10
ATOM	9722	CA	ALA	1435	-2.685	-20.916	72.175	1.00	43.53
ATOM	9723	CB	ALA	1435	-2.849	-19.512	72.741	1.00	43.69
ATOM	9724	C	ALA	1435	-3.675	-21.864	72.833	1.00	46.59
ATOM	9725	O	ALA	1435	-3.376	-22.480	73.857	1.00	48.64
ATOM	9726	N	GLU	1436	-4.857	-21.974	72.235	1.00	49.35
ATOM	9727	CA	GLU	1436	-5.908	-22.852	72.742	1.00	52.29
ATOM	9728	CB	GLU	1436	-7.250	-22.507	72.085	1.00	54.27
ATOM	9729	CG	GLU	1436	-7.670	-21.046	72.213	1.00	57.48
ATOM	9730	CD	GLU	1436	-8.111	-20.674	73.617	1.00	59.19

ATOM	9731	OE1	GLU	1436	-7.296	-20.800	74.557	1.00	60.49
ATOM	9732	OE2	GLU	1436	-9.278	-20.251	73.779	1.00	59.69
ATOM	9733	C	GLU	1436	-5.549	-24.300	72.423	1.00	52.82
ATOM	9734	O	GLU	1436	-6.359	-25.208	72.610	1.00	53.16
ATOM	9735	N	THR	1437	-4.334	-24.504	71.926	1.00	53.46
ATOM	9736	CA	THR	1437	-3.855	-25.839	71.582	1.00	53.71
ATOM	9737	CB	THR	1437	-4.497	-26.343	70.268	1.00	54.29
ATOM	9738	OG1	THR	1437	-4.009	-27.658	69.968	1.00	55.02
ATOM	9739	CG2	THR	1437	-4.167	-25.405	69.113	1.00	55.13
ATOM	9740	C	THR	1437	-2.332	-25.849	71.440	1.00	53.32
ATOM	9741	O	THR	1437	-1.632	-25.088	72.113	1.00	53.43
ATOM	9742	N	GLY	1438	-1.822	-26.716	70.571	1.00	51.53
ATOM	9743	CA	GLY	1438	-0.387	-26.798	70.367	1.00	49.87
ATOM	9744	C	GLY	1438	-0.031	-27.262	68.970	1.00	48.04
ATOM	9745	O	GLY	1438	1.117	-27.603	68.690	1.00	48.97
ATOM	9746	N	ASP	1439	-1.023	-27.265	68.088	1.00	45.31
ATOM	9747	CA	ASP	1439	-0.826	-27.699	66.714	1.00	42.62
ATOM	9748	CB	ASP	1439	-1.358	-29.129	66.553	1.00	44.51
ATOM	9749	CG	ASP	1439	-1.261	-29.633	65.132	1.00	46.55
ATOM	9750	OD1	ASP	1439	-2.119	-29.256	64.309	1.00	47.77
ATOM	9751	OD2	ASP	1439	-0.319	-30.402	64.836	1.00	48.59
ATOM	9752	C	ASP	1439	-1.540	-26.747	65.758	1.00	39.71
ATOM	9753	O	ASP	1439	-2.752	-26.552	65.850	1.00	38.19
ATOM	9754	N	ILE	1440	-0.779	-26.150	64.845	1.00	37.29
ATOM	9755	CA	ILE	1440	-1.337	-25.206	63.883	1.00	34.57
ATOM	9756	CB	ILE	1440	-0.268	-24.751	62.861	1.00	33.52
ATOM	9757	CG2	ILE	1440	-0.920	-23.930	61.748	1.00	33.39
ATOM	9758	CG1	ILE	1440	0.800	-23.920	63.572	1.00	32.81
ATOM	9759	CD1	ILE	1440	1.930	-23.460	62.678	1.00	31.48
ATOM	9760	C	ILE	1440	-2.540	-25.774	63.138	1.00	32.97
ATOM	9761	O	ILE	1440	-3.558	-25.097	62.994	1.00	32.77
ATOM	9762	N	ARG	1441	-2.429	-27.012	62.668	1.00	31.92
ATOM	9763	CA	ARG	1441	-3.532	-27.631	61.947	1.00	30.40
ATOM	9764	CB	ARG	1441	-3.114	-28.993	61.389	1.00	30.10
ATOM	9765	CG	ARG	1441	-2.154	-28.897	60.205	1.00	31.94
ATOM	9766	CD	ARG	1441	-1.662	-30.266	59.761	1.00	31.51
ATOM	9767	NE	ARG	1441	-0.801	-30.192	58.580	1.00	31.83
ATOM	9768	CZ	ARG	1441	0.381	-29.583	58.542	1.00	31.78
ATOM	9769	NH1	ARG	1441	0.863	-28.986	59.624	1.00	31.49
ATOM	9770	NH2	ARG	1441	1.086	-29.571	57.418	1.00	31.50
ATOM	9771	C	ARG	1441	-4.730	-27.776	62.869	1.00	30.29
ATOM	9772	O	ARG	1441	-5.881	-27.702	62.432	1.00	30.16
ATOM	9773	N	ALA	1442	-4.459	-27.979	64.155	1.00	29.42
ATOM	9774	CA	ALA	1442	-5.527	-28.115	65.133	1.00	28.31
ATOM	9775	CB	ALA	1442	-4.963	-28.620	66.469	1.00	27.62
ATOM	9776	C	ALA	1442	-6.183	-26.751	65.308	1.00	26.62
ATOM	9777	O	ALA	1442	-7.396	-26.656	65.471	1.00	28.00
ATOM	9778	N	ALA	1443	-5.377	-25.694	65.270	1.00	24.98
ATOM	9779	CA	ALA	1443	-5.903	-24.343	65.411	1.00	24.60
ATOM	9780	CB	ALA	1443	-4.759	-23.330	65.421	1.00	24.64
ATOM	9781	C	ALA	1443	-6.871	-24.043	64.264	1.00	24.55
ATOM	9782	O	ALA	1443	-7.889	-23.373	64.458	1.00	24.61
ATOM	9783	N	VAL	1444	-6.553	-24.547	63.072	1.00	24.06
ATOM	9784	CA	VAL	1444	-7.396	-24.344	61.895	1.00	25.36
ATOM	9785	CB	VAL	1444	-6.738	-24.933	60.620	1.00	25.58
ATOM	9786	CG1	VAL	1444	-7.681	-24.782	59.430	1.00	26.78
ATOM	9787	CG2	VAL	1444	-5.423	-24.217	60.338	1.00	24.41
ATOM	9788	C	VAL	1444	-8.757	-25.002	62.086	1.00	26.13
ATOM	9789	O	VAL	1444	-9.792	-24.378	61.854	1.00	25.38
ATOM	9790	N	ARG	1445	-8.749	-26.262	62.509	1.00	27.76
ATOM	9791	CA	ARG	1445	-9.988	-27.001	62.723	1.00	29.79
ATOM	9792	CB	ARG	1445	-9.688	-28.459	63.088	1.00	30.48
ATOM	9793	CG	ARG	1445	-9.065	-29.272	61.953	1.00	31.74
ATOM	9794	CD	ARG	1445	-9.068	-30.766	62.259	1.00	33.04
ATOM	9795	NE	ARG	1445	-8.249	-31.106	63.424	1.00	34.02
ATOM	9796	CZ	ARG	1445	-6.941	-31.341	63.383	1.00	33.14
ATOM	9797	NH1	ARG	1445	-6.286	-31.278	62.231	1.00	31.44
ATOM	9798	NH2	ARG	1445	-6.288	-31.650	64.495	1.00	33.53
ATOM	9799	C	ARG	1445	-10.846	-26.361	63.809	1.00	30.41
ATOM	9800	O	ARG	1445	-12.070	-26.298	63.685	1.00	29.87
ATOM	9801	N	GLN	1446	-10.205	-25.877	64.868	1.00	31.30
ATOM	9802	CA	GLN	1446	-10.937	-25.246	65.958	1.00	32.71
ATOM	9803	CB	GLN	1446	-9.987	-24.877	67.098	1.00	35.17
ATOM	9804	CG	GLN	1446	-10.699	-24.629	68.420	1.00	39.56
ATOM	9805	CD	GLN	1446	-9.759	-24.160	69.514	1.00	41.33
ATOM	9806	OE1	GLN	1446	-8.609	-24.608	69.599	1.00	42.46
ATOM	9807	NE2	GLN	1446	-10.247	-23.262	70.371	1.00	40.91



ATOM	9808	C	GLN	1446	-11.632	-23.988	65.440	1.00	31.61
ATOM	9809	O	GLN	1446	-12.792	-23.729	65.755	1.00	30.44
ATOM	9810	N	TYR	1447	-10.907	-23.211	64.643	1.00	31.24
ATOM	9811	CA	TYR	1447	-11.444	-21.981	64.072	1.00	30.17
ATOM	9812	CB	TYR	1447	-10.361	-21.286	63.242	1.00	29.43
ATOM	9813	CG	TYR	1447	-10.865	-20.155	62.374	1.00	28.31
ATOM	9814	CD1	TYR	1447	-11.525	-19.059	62.927	1.00	27.71
ATOM	9815	CE1	TYR	1447	-11.999	-18.023	62.122	1.00	25.98
ATOM	9816	CD2	TYR	1447	-10.689	-20.190	60.990	1.00	28.41
ATOM	9817	CE2	TYR	1447	-11.158	-19.164	60.179	1.00	26.24
ATOM	9818	CZ	TYR	1447	-11.810	-18.087	60.748	1.00	27.37
ATOM	9819	OH	TYR	1447	-12.279	-17.083	59.939	1.00	26.55
ATOM	9820	C	TYR	1447	-12.679	-22.267	63.213	1.00	29.65
ATOM	9821	O	TYR	1447	-13.685	-21.559	63.301	1.00	30.55
ATOM	9822	N	MET	1448	-12.598	-23.309	62.392	1.00	29.56
ATOM	9823	CA	MET	1448	-13.703	-23.702	61.521	1.00	30.34
ATOM	9824	CB	MET	1448	-13.282	-24.878	60.631	1.00	30.01
ATOM	9825	CG	MET	1448	-12.224	-24.529	59.580	1.00	31.10
ATOM	9826	SD	MET	1448	-11.474	-25.991	58.818	1.00	31.68
ATOM	9827	CE	MET	1448	-12.791	-26.527	57.742	1.00	29.90
ATOM	9828	C	MET	1448	-14.935	-24.103	62.327	1.00	30.96
ATOM	9829	O	MET	1448	-16.045	-23.636	62.061	1.00	29.66
ATOM	9830	N	ALA	1449	-14.729	-24.976	63.308	1.00	31.49
ATOM	9831	CA	ALA	1449	-15.814	-25.467	64.152	1.00	32.03
ATOM	9832	CB	ALA	1449	-15.293	-26.567	65.076	1.00	32.34
ATOM	9833	C	ALA	1449	-16.485	-24.369	64.974	1.00	32.12
ATOM	9834	O	ALA	1449	-17.708	-24.350	65.108	1.00	33.68
ATOM	9835	N	GLU	1450	-15.692	-23.460	65.529	1.00	32.10
ATOM	9836	CA	GLU	1450	-16.253	-22.382	66.335	1.00	33.21
ATOM	9837	CB	GLU	1450	-15.154	-21.685	67.141	1.00	34.06
ATOM	9838	CG	GLU	1450	-14.691	-22.482	68.353	1.00	36.22
ATOM	9839	CD	GLU	1450	-13.733	-21.708	69.231	1.00	38.09
ATOM	9840	OE1	GLU	1450	-14.030	-20.539	69.549	1.00	40.42
ATOM	9841	OE2	GLU	1450	-12.685	-22.269	69.615	1.00	41.16
ATOM	9842	C	GLU	1450	-17.023	-21.359	65.508	1.00	32.93
ATOM	9843	O	GLU	1450	-17.956	-20.731	66.010	1.00	31.71
ATOM	9844	N	VAL	1451	-16.636	-21.186	64.246	1.00	31.86
ATOM	9845	CA	VAL	1451	-17.330	-20.241	63.373	1.00	31.03
ATOM	9846	CB	VAL	1451	-16.534	-19.983	62.064	1.00	30.01
ATOM	9847	CG1	VAL	1451	-17.419	-19.275	61.041	1.00	29.75
ATOM	9848	CG2	VAL	1451	-15.312	-19.133	62.367	1.00	28.24
ATOM	9849	C	VAL	1451	-18.713	-20.783	63.017	1.00	31.90
ATOM	9850	O	VAL	1451	-19.705	-20.060	63.094	1.00	32.23
ATOM	9851	N	GLU	1452	-18.766	-22.059	62.639	1.00	31.88
ATOM	9852	CA	GLU	1452	-20.019	-22.704	62.262	1.00	33.73
ATOM	9853	CB	GLU	1452	-19.741	-24.083	61.660	1.00	34.97
ATOM	9854	CG	GLU	1452	-20.993	-24.838	61.243	1.00	38.84
ATOM	9855	CD	GLU	1452	-20.681	-26.118	60.490	1.00	41.04
ATOM	9856	OE1	GLU	1452	-21.632	-26.820	60.088	1.00	42.35
ATOM	9857	OE2	GLU	1452	-19.483	-26.421	60.296	1.00	43.66
ATOM	9858	C	GLU	1452	-20.975	-22.846	63.444	1.00	34.26
ATOM	9859	O	GLU	1452	-22.194	-22.815	63.274	1.00	33.56
ATOM	9860	N	SER	1453	-20.412	-22.996	64.638	1.00	34.47
ATOM	9861	CA	SER	1453	-21.207	-23.145	65.850	1.00	35.91
ATOM	9862	CB	SER	1453	-20.414	-23.918	66.903	1.00	36.48
ATOM	9863	OG	SER	1453	-20.068	-25.205	66.416	1.00	39.52
ATOM	9864	C	SER	1453	-21.608	-21.786	66.414	1.00	35.30
ATOM	9865	O	SER	1453	-22.490	-21.690	67.269	1.00	35.49
ATOM	9866	N	GLY	1454	-20.959	-20.737	65.929	1.00	33.14
ATOM	9867	CA	GLY	1454	-21.267	-19.405	66.407	1.00	32.40
ATOM	9868	C	GLY	1454	-20.441	-19.042	67.624	1.00	31.91
ATOM	9869	O	GLY	1454	-20.491	-17.906	68.100	1.00	31.65
ATOM	9870	N	VAL	1455	-19.680	-20.008	68.132	1.00	32.10
ATOM	9871	CA	VAL	1455	-18.828	-19.781	69.298	1.00	31.24
ATOM	9872	CB	VAL	1455	-17.930	-21.009	69.580	1.00	32.35
ATOM	9873	CG1	VAL	1455	-17.034	-20.735	70.777	1.00	32.27
ATOM	9874	CG2	VAL	1455	-18.787	-22.241	69.820	1.00	33.67
ATOM	9875	C	VAL	1455	-17.939	-18.570	69.033	1.00	30.78
ATOM	9876	O	VAL	1455	-17.739	-17.722	69.905	1.00	30.55
ATOM	9877	N	TYR	1456	-17.410	-18.500	67.815	1.00	28.80
ATOM	9878	CA	TYR	1456	-16.545	-17.401	67.405	1.00	27.94
ATOM	9879	CB	TYR	1456	-15.157	-17.935	67.012	1.00	26.12
ATOM	9880	CG	TYR	1456	-14.226	-16.846	66.531	1.00	23.34
ATOM	9881	CD1	TYR	1456	-13.651	-15.950	67.433	1.00	22.92
ATOM	9882	CE1	TYR	1456	-12.873	-14.883	66.995	1.00	22.74
ATOM	9883	CD2	TYR	1456	-13.989	-16.652	65.169	1.00	24.91
ATOM	9884	CE2	TYR	1456	-13.212	-15.585	64.718	1.00	22.93

ATOM	9885	CZ	TYR	1456	-12.663	-14.704	65.634	1.00	23.92
ATOM	9886	OH	TYR	1456	-11.936	-13.618	65.204	1.00	24.81
ATOM	9887	C	TYR	1456	-17.155	-16.671	66.208	1.00	27.24
ATOM	9888	O	TYR	1456	-17.610	-17.308	65.259	1.00	27.22
ATOM	9889	N	PRO	1457	-17.178	-15.328	66.242	1.00	28.94
ATOM	9890	CD	PRO	1457	-17.470	-14.508	65.053	1.00	28.55
ATOM	9891	CA	PRO	1457	-16.660	-14.494	67.331	1.00	29.57
ATOM	9892	CB	PRO	1457	-16.370	-13.167	66.638	1.00	29.55
ATOM	9893	CG	PRO	1457	-17.442	-13.105	65.607	1.00	31.60
ATOM	9894	C	PRO	1457	-17.634	-14.338	68.499	1.00	31.24
ATOM	9895	O	PRO	1457	-18.850	-14.454	68.333	1.00	31.53
ATOM	9896	N	GLY	1458	-17.085	-14.081	69.683	1.00	32.29
ATOM	9897	CA	GLY	1458	-17.911	-13.903	70.864	1.00	33.07
ATOM	9898	C	GLY	1458	-18.126	-12.429	71.129	1.00	34.59
ATOM	9899	O	GLY	1458	-17.564	-11.583	70.431	1.00	34.41
ATOM	9900	N	GLU	1459	-18.931	-12.106	72.135	1.00	34.02
ATOM	9901	CA	GLU	1459	-19.191	-10.711	72.447	1.00	35.57
ATOM	9902	CB	GLU	1459	-20.174	-10.591	73.616	1.00	39.24
ATOM	9903	CG	GLU	1459	-21.239	-9.530	73.394	1.00	41.27
ATOM	9904	CD	GLU	1459	-22.226	-9.926	72.309	1.00	42.55
ATOM	9905	OE1	GLU	1459	-22.962	-9.046	71.815	1.00	43.59
ATOM	9906	OE2	GLU	1459	-22.272	-11.123	71.954	1.00	44.59
ATOM	9907	C	GLU	1459	-17.886	-10.004	72.798	1.00	34.39
ATOM	9908	O	GLU	1459	-17.763	-8.790	72.634	1.00	34.39
ATOM	9909	N	GLU	1460	-16.910	-10.775	73.271	1.00	33.94
ATOM	9910	CA	GLU	1460	-15.607	-10.232	73.645	1.00	34.54
ATOM	9911	CB	GLU	1460	-14.784	-11.277	74.404	1.00	37.12
ATOM	9912	CG	GLU	1460	-15.592	-12.160	75.331	1.00	41.64
ATOM	9913	CD	GLU	1460	-16.379	-13.213	74.579	1.00	43.05
ATOM	9914	OE1	GLU	1460	-15.745	-14.100	73.961	1.00	43.71
ATOM	9915	OE2	GLU	1460	-17.628	-13.148	74.600	1.00	44.97
ATOM	9916	C	GLU	1460	-14.828	-9.816	72.404	1.00	33.32
ATOM	9917	O	GLU	1460	-13.883	-9.031	72.488	1.00	33.42
ATOM	9918	N	HIS	1461	-15.227	-10.358	71.258	1.00	31.67
ATOM	9919	CA	HIS	1461	-14.571	-10.067	69.986	1.00	30.54
ATOM	9920	CB	HIS	1461	-14.304	-11.368	69.224	1.00	30.83
ATOM	9921	CG	HIS	1461	-13.527	-12.382	70.002	1.00	30.96
ATOM	9922	CD2	HIS	1461	-13.853	-13.630	70.415	1.00	30.87
ATOM	9923	ND1	HIS	1461	-12.236	-12.160	70.433	1.00	31.51
ATOM	9924	CE1	HIS	1461	-11.800	-13.228	71.077	1.00	32.78
ATOM	9925	NE2	HIS	1461	-12.761	-14.134	71.080	1.00	30.95
ATOM	9926	C	HIS	1461	-15.443	-9.169	69.121	1.00	30.10
ATOM	9927	O	HIS	1461	-15.096	-8.871	67.979	1.00	28.36
ATOM	9928	N	SER	1462	-16.573	-8.742	69.677	1.00	29.88
ATOM	9929	CA	SER	1462	-17.526	-7.901	68.962	1.00	31.52
ATOM	9930	CB	SER	1462	-18.930	-8.484	69.111	1.00	29.18
ATOM	9931	OG	SER	1462	-18.956	-9.846	68.726	1.00	31.95
ATOM	9932	C	SER	1462	-17.538	-6.453	69.440	1.00	33.19
ATOM	9933	O	SER	1462	-17.161	-6.161	70.576	1.00	33.68
ATOM	9934	N	PHE	1463	-17.981	-5.550	68.567	1.00	33.32
ATOM	9935	CA	PHE	1463	-18.057	-4.130	68.900	1.00	34.66
ATOM	9936	CB	PHE	1463	-17.364	-3.274	67.834	1.00	35.23
ATOM	9937	CG	PHE	1463	-15.895	-3.555	67.684	1.00	36.25
ATOM	9938	CD1	PHE	1463	-15.453	-4.650	66.951	1.00	36.98
ATOM	9939	CD2	PHE	1463	-14.952	-2.721	68.278	1.00	37.01
ATOM	9940	CE1	PHE	1463	-14.092	-4.910	66.807	1.00	37.76
ATOM	9941	CE2	PHE	1463	-13.587	-2.971	68.142	1.00	35.48
ATOM	9942	CZ	PHE	1463	-13.157	-4.068	67.405	1.00	37.03
ATOM	9943	C	PHE	1463	-19.513	-3.685	69.027	1.00	35.85
ATOM	9944	O	PHE	1463	-20.420	-4.319	68.486	1.00	33.90
ATOM	9945	N	HIS	1464	-19.727	-2.585	69.740	1.00	37.39
ATOM	9946	CA	HIS	1464	-21.068	-2.053	69.949	1.00	39.80
ATOM	9947	CB	HIS	1464	-21.623	-2.538	71.289	1.00	39.63
ATOM	9948	CG	HIS	1464	-21.853	-4.016	71.342	1.00	40.65
ATOM	9949	CD2	HIS	1464	-21.226	-4.995	72.038	1.00	40.98
ATOM	9950	ND1	HIS	1464	-22.818	-4.644	70.585	1.00	39.94
ATOM	9951	CE1	HIS	1464	-22.776	-5.945	70.810	1.00	40.36
ATOM	9952	NE2	HIS	1464	-21.818	-6.185	71.688	1.00	40.96
ATOM	9953	C	HIS	1464	-21.042	-0.535	69.920	1.00	40.95
ATOM	9954	O	HIS	1464	-21.911	0.059	69.243	1.00	41.98
ATOM	9955	OXT	HIS	1464	-20.156	0.038	70.583	1.00	42.55
ATOM	9956	C1	KPL	1465	-8.662	-8.598	56.997	1.00	40.66
ATOM	9957	C2	KPL	1465	-9.406	-8.731	55.651	1.00	40.02
ATOM	9958	C3	KPL	1465	-9.470	-10.212	55.264	1.00	40.28
ATOM	9959	C4	KPL	1465	-10.847	-8.205	55.810	1.00	41.40
ATOM	9960	O1	KPL	1465	-10.844	-6.822	56.181	1.00	43.78
ATOM	9961	C5	KPL	1465	-8.646	-7.947	54.549	1.00	38.37

ATOM	9962	O2	KPL	1465	-9.203	-7.052	53.945	1.00	39.08
ATOM	9963	C6	KPL	1465	-7.208	-8.268	54.193	1.00	36.59
ATOM	9964	O3	KPL	1465	-6.611	-9.157	54.768	1.00	34.92
ATOM	9965	O4	KPL	1465	-6.578	-7.561	53.231	1.00	31.35
ATOM	9966	CB	MET	1501	12.451	-25.585	-6.577	1.00	68.45
ATOM	9967	CG	MET	1501	12.983	-25.086	-7.922	1.00	70.78
ATOM	9968	SD	MET	1501	14.555	-25.814	-8.446	1.00	73.21
ATOM	9969	CE	MET	1501	15.640	-24.379	-8.381	1.00	72.59
ATOM	9970	C	MET	1501	14.232	-26.660	-5.175	1.00	64.43
ATOM	9971	O	MET	1501	13.933	-27.714	-5.740	1.00	64.33
ATOM	9972	N	MET	1501	14.252	-24.188	-5.606	1.00	67.20
ATOM	9973	CA	MET	1501	13.404	-25.395	-5.390	1.00	66.44
ATOM	9974	N	LYS	1502	15.270	-26.551	-4.351	1.00	61.82
ATOM	9975	CA	LYS	1502	16.137	-27.690	-4.067	1.00	58.51
ATOM	9976	CB	LYS	1502	17.506	-27.493	-4.719	1.00	59.36
ATOM	9977	CG	LYS	1502	17.454	-27.205	-6.219	1.00	59.84
ATOM	9978	CD	LYS	1502	16.747	-28.314	-6.992	1.00	60.21
ATOM	9979	CE	LYS	1502	17.479	-29.641	-6.871	1.00	60.21
ATOM	9980	NZ	LYS	1502	16.766	-30.731	-7.593	1.00	60.90
ATOM	9981	C	LYS	1502	16.286	-27.938	-2.562	1.00	55.49
ATOM	9982	O	LYS	1502	16.023	-29.039	-2.083	1.00	56.98
ATOM	9983	N	PRO	1503	16.733	-26.918	-1.795	1.00	51.21
ATOM	9984	CD	PRO	1503	16.674	-27.002	-0.323	1.00	49.69
ATOM	9985	CA	PRO	1503	17.082	-25.554	-2.213	1.00	46.71
ATOM	9986	CB	PRO	1503	16.764	-24.739	-0.973	1.00	48.28
ATOM	9987	CG	PRO	1503	17.226	-25.653	0.112	1.00	49.41
ATOM	9988	C	PRO	1503	18.558	-25.434	-2.610	1.00	42.37
ATOM	9989	O	PRO	1503	19.337	-26.369	-2.433	1.00	41.84
ATOM	9990	N	THR	1504	18.929	-24.274	-3.142	1.00	37.50
ATOM	9991	CA	THR	1504	20.302	-24.024	-3.565	1.00	33.10
ATOM	9992	CB	THR	1504	20.375	-22.784	-4.485	1.00	32.53
ATOM	9993	OG1	THR	1504	19.578	-23.011	-5.653	1.00	33.15
ATOM	9994	CG2	THR	1504	21.808	-22.502	-4.905	1.00	29.59
ATOM	9995	C	THR	1504	21.190	-23.805	-2.342	1.00	31.99
ATOM	9996	O	THR	1504	20.826	-23.069	-1.425	1.00	29.30
ATOM	9997	N	THR	1505	22.354	-24.446	-2.332	1.00	30.78
ATOM	9998	CA	THR	1505	23.273	-24.324	-1.208	1.00	29.63
ATOM	9999	CB	THR	1505	23.305	-25.619	-0.369	1.00	29.85
ATOM	10000	OG1	THR	1505	23.894	-26.674	-1.138	1.00	31.33
ATOM	10001	CG2	THR	1505	21.899	-26.029	0.036	1.00	29.10
ATOM	10002	C	THR	1505	24.695	-24.014	-1.659	1.00	29.48
ATOM	10003	O	THR	1505	25.006	-24.056	-2.850	1.00	27.82
ATOM	10004	N	ILE	1506	25.557	-23.708	-0.693	1.00	29.78
ATOM	10005	CA	ILE	1506	26.950	-23.391	-0.975	1.00	30.15
ATOM	10006	CB	ILE	1506	27.723	-23.108	0.331	1.00	31.02
ATOM	10007	CG2	ILE	1506	29.122	-22.597	0.013	1.00	30.67
ATOM	10008	CG1	ILE	1506	26.966	-22.065	1.161	1.00	31.55
ATOM	10009	CD1	ILE	1506	27.492	-21.896	2.576	1.00	33.42
ATOM	10010	C	ILE	1506	27.593	-24.568	-1.705	1.00	30.17
ATOM	10011	O	ILE	1506	28.525	-24.394	-2.491	1.00	30.44
ATOM	10012	N	SER	1507	27.077	-25.765	-1.441	1.00	31.25
ATOM	10013	CA	SER	1507	27.576	-26.990	-2.059	1.00	33.43
ATOM	10014	CB	SER	1507	26.707	-28.180	-1.646	1.00	34.53
ATOM	10015	OG	SER	1507	26.578	-28.258	-0.238	1.00	39.65
ATOM	10016	C	SER	1507	27.579	-26.889	-3.580	1.00	33.68
ATOM	10017	O	SER	1507	28.551	-27.269	-4.234	1.00	33.38
ATOM	10018	N	LEU	1508	26.483	-26.383	-4.137	1.00	32.89
ATOM	10019	CA	LEU	1508	26.361	-26.242	-5.582	1.00	32.80
ATOM	10020	CB	LEU	1508	24.970	-25.720	-5.958	1.00	34.32
ATOM	10021	CG	LEU	1508	24.031	-26.678	-6.701	1.00	36.26
ATOM	10022	CD1	LEU	1508	22.694	-25.992	-6.951	1.00	36.00
ATOM	10023	CD2	LEU	1508	24.661	-27.114	-8.009	1.00	36.33
ATOM	10024	C	LEU	1508	27.420	-25.307	-6.156	1.00	31.90
ATOM	10025	O	LEU	1508	28.012	-25.597	-7.196	1.00	32.06
ATOM	10026	N	LEU	1509	27.659	-24.187	-5.482	1.00	29.72
ATOM	10027	CA	LEU	1509	28.646	-23.226	-5.959	1.00	29.54
ATOM	10028	CB	LEU	1509	28.595	-21.946	-5.116	1.00	29.54
ATOM	10029	CG	LEU	1509	27.233	-21.237	-5.105	1.00	29.15
ATOM	10030	CD1	LEU	1509	27.350	-19.898	-4.383	1.00	30.33
ATOM	10031	CD2	LEU	1509	26.748	-21.021	-6.535	1.00	28.87
ATOM	10032	C	LEU	1509	30.044	-23.830	-5.927	1.00	30.18
ATOM	10033	O	LEU	1509	30.875	-23.559	-6.799	1.00	27.72
ATOM	10034	N	GLN	1510	30.294	-24.658	-4.920	1.00	30.60
ATOM	10035	CA	GLN	1510	31.587	-25.308	-4.779	1.00	32.89
ATOM	10036	CB	GLN	1510	31.674	-26.008	-3.419	1.00	32.23
ATOM	10037	CG	GLN	1510	33.059	-26.521	-3.051	1.00	34.03
ATOM	10038	CD	GLN	1510	34.137	-25.452	-3.146	1.00	35.52

ATOM	10039	OE1	GLN	1510	34.673	-25.187	-4.223	1.00	36.22
ATOM	10040	NE2	GLN	1510	34.452	-24.824	-2.017	1.00	34.94
ATOM	10041	C	GLN	1510	31.747	-26.312	-5.920	1.00	33.79
ATOM	10042	O	GLN	1510	32.852	-26.537	-6.408	1.00	34.78
ATOM	10043	N	LYS	1511	30.636	-26.906	-6.345	1.00	35.14
ATOM	10044	CA	LYS	1511	30.659	-27.864	-7.446	1.00	36.98
ATOM	10045	CB	LYS	1511	29.309	-28.574	-7.574	1.00	38.13
ATOM	10046	CG	LYS	1511	29.169	-29.386	-8.859	1.00	40.56
ATOM	10047	CD	LYS	1511	27.711	-29.594	-9.259	1.00	43.87
ATOM	10048	CE	LYS	1511	26.973	-30.517	-8.299	1.00	45.00
ATOM	10049	NZ	LYS	1511	25.536	-30.670	-8.686	1.00	47.90
ATOM	10050	C	LYS	1511	30.955	-27.127	-8.750	1.00	36.69
ATOM	10051	O	LYS	1511	31.694	-27.619	-9.599	1.00	37.22
ATOM	10052	N	TYR	1512	30.371	-25.942	-8.899	1.00	36.54
ATOM	10053	CA	TYR	1512	30.560	-25.141	-10.098	1.00	35.65
ATOM	10054	CB	TYR	1512	29.669	-23.900	-10.053	1.00	37.28
ATOM	10055	CG	TYR	1512	28.193	-24.188	-10.212	1.00	39.20
ATOM	10056	CD1	TYR	1512	27.249	-23.175	-10.051	1.00	41.06
ATOM	10057	CE1	TYR	1512	25.889	-23.429	-10.195	1.00	42.03
ATOM	10058	CD2	TYR	1512	27.739	-25.468	-10.526	1.00	40.61
ATOM	10059	CE2	TYR	1512	26.382	-25.734	-10.673	1.00	41.29
ATOM	10060	CZ	TYR	1512	25.463	-24.710	-10.506	1.00	42.07
ATOM	10061	OH	TYR	1512	24.117	-24.963	-10.646	1.00	43.50
ATOM	10062	C	TYR	1512	32.002	-24.716	-10.328	1.00	36.33
ATOM	10063	O	TYR	1512	32.492	-24.771	-11.457	1.00	34.44
ATOM	10064	N	LYS	1513	32.684	-24.277	-9.274	1.00	35.91
ATOM	10065	CA	LYS	1513	34.074	-23.858	-9.426	1.00	37.24
ATOM	10066	CB	LYS	1513	34.646	-23.362	-8.090	1.00	35.07
ATOM	10067	CG	LYS	1513	36.146	-23.108	-8.136	1.00	32.35
ATOM	10068	CD	LYS	1513	36.594	-22.091	-7.096	1.00	31.84
ATOM	10069	CE	LYS	1513	38.093	-21.848	-7.198	1.00	30.35
ATOM	10070	NZ	LYS	1513	38.524	-20.591	-6.529	1.00	29.60
ATOM	10071	C	LYS	1513	34.907	-25.022	-9.954	1.00	38.69
ATOM	10072	O	LYS	1513	35.870	-24.829	-10.694	1.00	39.24
ATOM	10073	N	GLN	1514	34.517	-26.231	-9.567	1.00	40.67
ATOM	10074	CA	GLN	1514	35.205	-27.437	-9.995	1.00	43.38
ATOM	10075	CB	GLN	1514	34.733	-28.623	-9.160	1.00	45.15
ATOM	10076	CG	GLN	1514	35.177	-28.565	-7.710	1.00	48.35
ATOM	10077	CD	GLN	1514	34.481	-29.604	-6.855	1.00	49.83
ATOM	10078	OE1	GLN	1514	34.101	-30.669	-7.343	1.00	51.33
ATOM	10079	NE2	GLN	1514	34.321	-29.304	-5.570	1.00	50.47
ATOM	10080	C	GLN	1514	34.936	-27.704	-11.470	1.00	43.74
ATOM	10081	O	GLN	1514	35.820	-28.148	-12.200	1.00	44.54
ATOM	10082	N	GLU	1515	33.710	-27.428	-11.902	1.00	43.52
ATOM	10083	CA	GLU	1515	33.329	-27.637	-13.291	1.00	43.19
ATOM	10084	CB	GLU	1515	31.830	-27.920	-13.394	1.00	44.57
ATOM	10085	CG	GLU	1515	31.351	-29.051	-12.502	1.00	46.62
ATOM	10086	CD	GLU	1515	29.909	-29.430	-12.773	1.00	48.59
ATOM	10087	OE1	GLU	1515	29.051	-28.525	-12.825	1.00	48.92
ATOM	10088	OE2	GLU	1515	29.630	-30.637	-12.927	1.00	51.45
ATOM	10089	C	GLU	1515	33.676	-26.417	-14.136	1.00	42.44
ATOM	10090	O	GLU	1515	33.426	-26.396	-15.343	1.00	43.10
ATOM	10091	N	LYS	1516	34.255	-25.405	-13.496	1.00	40.37
ATOM	10092	CA	LYS	1516	34.633	-24.169	-14.175	1.00	39.50
ATOM	10093	CB	LYS	1516	35.645	-24.459	-15.282	1.00	40.90
ATOM	10094	CG	LYS	1516	36.965	-25.031	-14.793	1.00	42.75
ATOM	10095	CD	LYS	1516	37.714	-24.039	-13.919	1.00	45.19
ATOM	10096	CE	LYS	1516	39.074	-24.585	-13.498	1.00	46.49
ATOM	10097	NZ	LYS	1516	39.950	-24.871	-14.670	1.00	48.49
ATOM	10098	C	LYS	1516	33.408	-23.475	-14.768	1.00	38.14
ATOM	10099	O	LYS	1516	33.512	-22.731	-15.745	1.00	38.51
ATOM	10100	N	LYS	1517	32.249	-23.727	-14.170	1.00	35.26
ATOM	10101	CA	LYS	1517	31.003	-23.128	-14.630	1.00	33.69
ATOM	10102	CB	LYS	1517	29.837	-24.084	-14.385	1.00	34.32
ATOM	10103	CG	LYS	1517	28.497	-23.587	-14.904	1.00	35.09
ATOM	10104	CD	LYS	1517	27.352	-24.446	-14.384	1.00	37.44
ATOM	10105	CE	LYS	1517	27.483	-25.896	-14.832	1.00	39.19
ATOM	10106	NZ	LYS	1517	26.503	-26.777	-14.131	1.00	41.39
ATOM	10107	C	LYS	1517	30.765	-21.823	-13.878	1.00	31.87
ATOM	10108	O	LYS	1517	30.366	-21.830	-12.715	1.00	31.03
ATOM	10109	N	ARG	1518	31.018	-20.704	-14.546	1.00	30.53
ATOM	10110	CA	ARG	1518	30.826	-19.399	-13.929	1.00	28.43
ATOM	10111	CB	ARG	1518	31.462	-18.319	-14.805	1.00	30.06
ATOM	10112	CG	ARG	1518	32.981	-18.306	-14.714	1.00	31.46
ATOM	10113	CD	ARG	1518	33.626	-17.421	-15.766	1.00	33.23
ATOM	10114	NE	ARG	1518	33.666	-18.071	-17.074	1.00	35.53
ATOM	10115	CZ	ARG	1518	34.192	-17.523	-18.165	1.00	36.48

ATOM	10116	NH1	ARG	1518	34.723	-16.308	-18.113	1.00	34.15
ATOM	10117	NH2	ARG	1518	34.192	-18.194	-19.308	1.00	37.73
ATOM	10118	C	ARG	1518	29.340	-19.127	-13.692	1.00	27.86
ATOM	10119	O	ARG	1518	28.518	-19.234	-14.605	1.00	27.30
ATOM	10120	N	PHE	1519	29.008	-18.776	-12.452	1.00	25.52
ATOM	10121	CA	PHE	1519	27.625	-18.518	-12.056	1.00	23.05
ATOM	10122	CB	PHE	1519	27.283	-19.382	-10.841	1.00	23.24
ATOM	10123	CG	PHE	1519	28.151	-19.109	-9.646	1.00	22.05
ATOM	10124	CD1	PHE	1519	27.829	-18.085	-8.755	1.00	22.20
ATOM	10125	CD2	PHE	1519	29.311	-19.851	-9.428	1.00	24.57
ATOM	10126	CE1	PHE	1519	28.650	-17.800	-7.666	1.00	20.88
ATOM	10127	CE2	PHE	1519	30.142	-19.575	-8.342	1.00	24.45
ATOM	10128	CZ	PHE	1519	29.810	-18.547	-7.457	1.00	23.26
ATOM	10129	C	PHE	1519	27.356	-17.048	-11.738	1.00	23.05
ATOM	10130	O	PHE	1519	28.248	-16.314	-11.310	1.00	21.97
ATOM	10131	N	ALA	1520	26.113	-16.627	-11.944	1.00	21.46
ATOM	10132	CA	ALA	1520	25.718	-15.250	-11.687	1.00	20.80
ATOM	10133	CB	ALA	1520	24.835	-14.747	-12.822	1.00	20.77
ATOM	10134	C	ALA	1520	24.991	-15.098	-10.352	1.00	19.62
ATOM	10135	O	ALA	1520	24.241	-15.980	-9.936	1.00	20.43
ATOM	10136	N	THR	1521	25.230	-13.972	-9.688	1.00	19.21
ATOM	10137	CA	THR	1521	24.602	-13.663	-8.406	1.00	20.28
ATOM	10138	CB	THR	1521	25.626	-13.736	-7.259	1.00	20.78
ATOM	10139	OG1	THR	1521	26.154	-15.070	-7.183	1.00	23.74
ATOM	10140	CG2	THR	1521	24.967	-13.386	-5.934	1.00	27.16
ATOM	10141	C	THR	1521	24.030	-12.250	-8.495	1.00	17.98
ATOM	10142	O	THR	1521	24.485	-11.435	-9.300	1.00	17.51
ATOM	10143	N	ILE	1522	23.042	-11.942	-7.666	1.00	17.55
ATOM	10144	CA	ILE	1522	22.427	-10.626	-7.746	1.00	15.48
ATOM	10145	CB	ILE	1522	21.232	-10.684	-8.726	1.00	15.93
ATOM	10146	CG2	ILE	1522	20.049	-11.381	-8.064	1.00	15.09
ATOM	10147	CG1	ILE	1522	20.846	-9.276	-9.185	1.00	15.40
ATOM	10148	CD1	ILE	1522	21.865	-8.630	-10.104	1.00	21.34
ATOM	10149	C	ILE	1522	21.944	-10.131	-6.386	1.00	15.61
ATOM	10150	O	ILE	1522	21.694	-10.926	-5.485	1.00	13.97
ATOM	10151	N	THR	1523	21.825	-8.818	-6.226	1.00	17.24
ATOM	10152	CA	THR	1523	21.331	-8.289	-4.962	1.00	16.39
ATOM	10153	CB	THR	1523	21.855	-6.859	-4.657	1.00	16.96
ATOM	10154	OG1	THR	1523	21.353	-5.938	-5.628	1.00	18.49
ATOM	10155	CG2	THR	1523	23.385	-6.828	-4.660	1.00	17.93
ATOM	10156	C	THR	1523	19.806	-8.255	-5.065	1.00	15.12
ATOM	10157	O	THR	1523	19.250	-8.196	-6.156	1.00	15.19
ATOM	10158	N	ALA	1524	19.131	-8.323	-3.925	1.00	15.23
ATOM	10159	CA	ALA	1524	17.675	-8.280	-3.889	1.00	12.50
ATOM	10160	CB	ALA	1524	17.092	-9.670	-4.121	1.00	13.98
ATOM	10161	C	ALA	1524	17.296	-7.759	-2.508	1.00	13.20
ATOM	10162	O	ALA	1524	17.943	-8.102	-1.517	1.00	14.00
ATOM	10163	N	TYR	1525	16.244	-6.946	-2.448	1.00	13.12
ATOM	10164	CA	TYR	1525	15.813	-6.346	-1.190	1.00	13.36
ATOM	10165	CB	TYR	1525	16.287	-4.896	-1.112	1.00	12.75
ATOM	10166	CG	TYR	1525	17.633	-4.646	-1.748	1.00	14.96
ATOM	10167	CD1	TYR	1525	17.717	-4.174	-3.056	1.00	16.08
ATOM	10168	CE1	TYR	1525	18.938	-3.904	-3.648	1.00	18.05
ATOM	10169	CD2	TYR	1525	18.820	-4.852	-1.040	1.00	15.12
ATOM	10170	CE2	TYR	1525	20.064	-4.582	-1.627	1.00	14.69
ATOM	10171	CZ	TYR	1525	20.107	-4.107	-2.928	1.00	16.54
ATOM	10172	OH	TYR	1525	21.315	-3.807	-3.521	1.00	17.02
ATOM	10173	C	TYR	1525	14.305	-6.357	-0.977	1.00	13.91
ATOM	10174	O	TYR	1525	13.808	-5.714	-0.053	1.00	12.93
ATOM	10175	N	ASP	1526	13.575	-7.055	-1.839	1.00	12.13
ATOM	10176	CA	ASP	1526	12.129	-7.127	-1.692	1.00	12.96
ATOM	10177	CB	ASP	1526	11.454	-5.901	-2.325	1.00	13.73
ATOM	10178	CG	ASP	1526	11.615	-5.846	-3.835	1.00	17.18
ATOM	10179	OD1	ASP	1526	10.998	-6.672	-4.543	1.00	19.08
ATOM	10180	OD2	ASP	1526	12.363	-4.967	-4.311	1.00	19.29
ATOM	10181	C	ASP	1526	11.574	-8.412	-2.297	1.00	14.23
ATOM	10182	O	ASP	1526	12.250	-9.088	-3.071	1.00	13.08
ATOM	10183	N	TYR	1527	10.343	-8.741	-1.918	1.00	11.93
ATOM	10184	CA	TYR	1527	9.648	-9.941	-2.387	1.00	13.16
ATOM	10185	CB	TYR	1527	8.248	-9.987	-1.778	1.00	14.17
ATOM	10186	CG	TYR	1527	7.338	-11.037	-2.388	1.00	16.24
ATOM	10187	CD1	TYR	1527	7.352	-12.348	-1.925	1.00	16.32
ATOM	10188	CE1	TYR	1527	6.527	-13.320	-2.484	1.00	17.69
ATOM	10189	CD2	TYR	1527	6.468	-10.718	-3.437	1.00	17.45
ATOM	10190	CE2	TYR	1527	5.637	-11.688	-4.007	1.00	17.34
ATOM	10191	CZ	TYR	1527	5.677	-12.987	-3.519	1.00	19.46
ATOM	10192	OH	TYR	1527	4.875	-13.963	-4.069	1.00	21.07

ATOM	10193	C	TYR	1527	9.503	-10.052	-3.901	1.00	14.65
ATOM	10194	O	TYR	1527	9.766	-11.102	-4.480	1.00	13.71
ATOM	10195	N	SER	1528	9.057	-8.974	-4.534	1.00	14.41
ATOM	10196	CA	SER	1528	8.825	-9.001	-5.965	1.00	12.84
ATOM	10197	CB	SER	1528	8.203	-7.687	-6.422	1.00	13.95
ATOM	10198	OG	SER	1528	6.922	-7.521	-5.821	1.00	16.83
ATOM	10199	C	SER	1528	10.041	-9.324	-6.809	1.00	13.31
ATOM	10200	O	SER	1528	9.991	-10.229	-7.650	1.00	13.87
ATOM	10201	N	PHE	1529	11.139	-8.609	-6.610	1.00	13.52
ATOM	10202	CA	PHE	1529	12.315	-8.926	-7.410	1.00	14.35
ATOM	10203	CB	PHE	1529	13.359	-7.817	-7.299	1.00	12.92
ATOM	10204	CG	PHE	1529	13.092	-6.664	-8.215	1.00	16.39
ATOM	10205	CD1	PHE	1529	12.474	-5.511	-7.747	1.00	15.02
ATOM	10206	CD2	PHE	1529	13.443	-6.743	-9.560	1.00	15.32
ATOM	10207	CE1	PHE	1529	12.207	-4.440	-8.609	1.00	17.64
ATOM	10208	CE2	PHE	1529	13.183	-5.685	-10.432	1.00	16.87
ATOM	10209	CZ	PHE	1529	12.564	-4.529	-9.959	1.00	17.73
ATOM	10210	C	PHE	1529	12.909	-10.279	-7.038	1.00	13.50
ATOM	10211	O	PHE	1529	13.384	-11.010	-7.908	1.00	14.17
ATOM	10212	N	ALA	1530	12.865	-10.628	-5.757	1.00	13.05
ATOM	10213	CA	ALA	1530	13.395	-11.925	-5.337	1.00	13.28
ATOM	10214	CB	ALA	1530	13.261	-12.083	-3.819	1.00	11.40
ATOM	10215	C	ALA	1530	12.640	-13.050	-6.050	1.00	13.09
ATOM	10216	O	ALA	1530	13.242	-14.003	-6.546	1.00	14.85
ATOM	10217	N	LYS	1531	11.315	-12.931	-6.087	1.00	13.26
ATOM	10218	CA	LYS	1531	10.458	-13.928	-6.728	1.00	14.54
ATOM	10219	CB	LYS	1531	8.991	-13.535	-6.523	1.00	15.21
ATOM	10220	CG	LYS	1531	7.959	-14.425	-7.195	1.00	19.57
ATOM	10221	CD	LYS	1531	7.576	-15.623	-6.363	1.00	24.21
ATOM	10222	CE	LYS	1531	6.196	-16.116	-6.781	1.00	25.02
ATOM	10223	NZ	LYS	1531	6.169	-16.393	-8.238	1.00	27.58
ATOM	10224	C	LYS	1531	10.773	-14.020	-8.221	1.00	13.65
ATOM	10225	O	LYS	1531	10.854	-15.114	-8.783	1.00	13.38
ATOM	10226	N	LEU	1532	10.941	-12.863	-8.853	1.00	15.51
ATOM	10227	CA	LEU	1532	11.238	-12.793	-10.283	1.00	15.37
ATOM	10228	CB	LEU	1532	11.295	-11.326	-10.727	1.00	16.67
ATOM	10229	CG	LEU	1532	11.485	-11.051	-12.233	1.00	13.94
ATOM	10230	CD1	LEU	1532	11.109	-9.614	-12.552	1.00	15.17
ATOM	10231	CD2	LEU	1532	12.937	-11.316	-12.617	1.00	18.81
ATOM	10232	C	LEU	1532	12.555	-13.507	-10.605	1.00	15.94
ATOM	10233	O	LEU	1532	12.612	-14.332	-11.522	1.00	18.14
ATOM	10234	N	PHE	1533	13.604	-13.201	-9.844	1.00	16.77
ATOM	10235	CA	PHE	1533	14.905	-13.825	-10.063	1.00	16.92
ATOM	10236	CB	PHE	1533	15.965	-13.248	-9.106	1.00	16.06
ATOM	10237	CG	PHE	1533	16.169	-11.762	-9.227	1.00	16.65
ATOM	10238	CD1	PHE	1533	15.971	-11.111	-10.440	1.00	18.16
ATOM	10239	CD2	PHE	1533	16.564	-11.011	-8.119	1.00	14.45
ATOM	10240	CE1	PHE	1533	16.157	-9.735	-10.554	1.00	18.81
ATOM	10241	CE2	PHE	1533	16.754	-9.632	-8.225	1.00	16.25
ATOM	10242	CZ	PHE	1533	16.549	-8.991	-9.443	1.00	18.42
ATOM	10243	C	PHE	1533	14.814	-15.337	-9.858	1.00	17.37
ATOM	10244	O	PHE	1533	15.257	-16.112	-10.699	1.00	17.81
ATOM	10245	N	ALA	1534	14.237	-15.743	-8.732	1.00	17.43
ATOM	10246	CA	ALA	1534	14.085	-17.159	-8.417	1.00	19.85
ATOM	10247	CB	ALA	1534	13.370	-17.333	-7.074	1.00	20.47
ATOM	10248	C	ALA	1534	13.316	-17.900	-9.509	1.00	21.04
ATOM	10249	O	ALA	1534	13.616	-19.057	-9.822	1.00	19.42
ATOM	10250	N	ASP	1535	12.318	-17.243	-10.085	1.00	22.15
ATOM	10251	CA	ASP	1535	11.530	-17.879	-11.131	1.00	22.54
ATOM	10252	CB	ASP	1535	10.232	-17.109	-11.387	1.00	24.94
ATOM	10253	CG	ASP	1535	9.228	-17.260	-10.259	1.00	26.10
ATOM	10254	OD1	ASP	1535	9.260	-18.288	-9.553	1.00	29.47
ATOM	10255	OD2	ASP	1535	8.398	-16.352	-10.093	1.00	30.35
ATOM	10256	C	ASP	1535	12.287	-18.042	-12.447	1.00	22.47
ATOM	10257	O	ASP	1535	11.874	-18.823	-13.296	1.00	22.23
ATOM	10258	N	GLU	1536	13.386	-17.311	-12.617	1.00	22.56
ATOM	10259	CA	GLU	1536	14.187	-17.407	-13.838	1.00	23.73
ATOM	10260	CB	GLU	1536	14.678	-16.024	-14.278	1.00	23.59
ATOM	10261	CG	GLU	1536	13.583	-15.086	-14.756	1.00	25.82
ATOM	10262	CD	GLU	1536	12.700	-15.718	-15.814	1.00	26.18
ATOM	10263	OE1	GLU	1536	13.256	-16.349	-16.739	1.00	25.95
ATOM	10264	OE2	GLU	1536	11.459	-15.575	-15.718	1.00	26.71
ATOM	10265	C	GLU	1536	15.397	-18.325	-13.672	1.00	24.75
ATOM	10266	O	GLU	1536	15.973	-18.784	-14.654	1.00	26.28
ATOM	10267	N	GLY	1537	15.797	-18.583	-12.433	1.00	25.87
ATOM	10268	CA	GLY	1537	16.944	-19.447	-12.223	1.00	25.64
ATOM	10269	C	GLY	1537	18.037	-18.855	-11.356	1.00	24.92

ATOM	10270	O	GLY	1537	18.903	-19.588	-10.893	1.00	26.48
ATOM	10271	N	LEU	1538	18.014	-17.540	-11.148	1.00	23.82
ATOM	10272	CA	LEU	1538	19.010	-16.872	-10.305	1.00	24.22
ATOM	10273	CB	LEU	1538	18.938	-15.356	-10.488	1.00	24.47
ATOM	10274	CG	LEU	1538	20.087	-14.653	-11.205	1.00	26.59
ATOM	10275	CD1	LEU	1538	19.769	-13.170	-11.298	1.00	23.00
ATOM	10276	CD2	LEU	1538	21.403	-14.879	-10.479	1.00	25.88
ATOM	10277	C	LEU	1538	18.682	-17.223	-8.862	1.00	23.54
ATOM	10278	O	LEU	1538	17.831	-16.580	-8.246	1.00	22.67
ATOM	10279	N	ASN	1539	19.372	-18.235	-8.338	1.00	23.14
ATOM	10280	CA	ASN	1539	19.146	-18.740	-6.985	1.00	23.02
ATOM	10281	CB	ASN	1539	19.144	-20.276	-6.991	1.00	25.31
ATOM	10282	CG	ASN	1539	18.057	-20.857	-7.877	1.00	29.87
ATOM	10283	OD1	ASN	1539	16.946	-20.333	-7.935	1.00	31.66
ATOM	10284	ND2	ASN	1539	18.367	-21.956	-8.560	1.00	32.41
ATOM	10285	C	ASN	1539	20.120	-18.266	-5.905	1.00	21.17
ATOM	10286	O	ASN	1539	20.100	-18.785	-4.787	1.00	22.27
ATOM	10287	N	VAL	1540	20.973	-17.303	-6.229	1.00	18.20
ATOM	10288	CA	VAL	1540	21.922	-16.778	-5.255	1.00	17.11
ATOM	10289	CB	VAL	1540	23.383	-17.043	-5.672	1.00	16.57
ATOM	10290	CG1	VAL	1540	24.322	-16.576	-4.558	1.00	19.33
ATOM	10291	CG2	VAL	1540	23.583	-18.517	-5.941	1.00	17.44
ATOM	10292	C	VAL	1540	21.699	-15.284	-5.161	1.00	15.86
ATOM	10293	O	VAL	1540	21.949	-14.537	-6.113	1.00	14.51
ATOM	10294	N	MET	1541	21.218	-14.845	-4.008	1.00	14.44
ATOM	10295	CA	MET	1541	20.921	-13.437	-3.815	1.00	14.69
ATOM	10296	CB	MET	1541	19.408	-13.226	-3.696	1.00	16.00
ATOM	10297	CG	MET	1541	18.661	-13.438	-4.990	1.00	17.44
ATOM	10298	SD	MET	1541	16.908	-13.405	-4.789	1.00	18.84
ATOM	10299	CE	MET	1541	16.460	-15.008	-5.443	1.00	17.64
ATOM	10300	C	MET	1541	21.579	-12.869	-2.586	1.00	14.81
ATOM	10301	O	MET	1541	21.776	-13.564	-1.587	1.00	15.31
ATOM	10302	N	LEU	1542	21.885	-11.585	-2.656	1.00	14.00
ATOM	10303	CA	LEU	1542	22.518	-10.920	-1.537	1.00	13.41
ATOM	10304	CB	LEU	1542	23.945	-10.527	-1.929	1.00	16.33
ATOM	10305	CG	LEU	1542	24.874	-9.753	-0.982	1.00	22.57
ATOM	10306	CD1	LEU	1542	24.655	-8.278	-1.204	1.00	25.11
ATOM	10307	CD2	LEU	1542	24.678	-10.149	0.485	1.00	19.55
ATOM	10308	C	LEU	1542	21.726	-9.706	-1.077	1.00	11.50
ATOM	10309	O	LEU	1542	21.406	-8.814	-1.862	1.00	11.99
ATOM	10310	N	VAL	1543	21.394	-9.701	0.210	1.00	12.88
ATOM	10311	CA	VAL	1543	20.685	-8.590	0.805	1.00	12.95
ATOM	10312	CB	VAL	1543	19.750	-9.067	1.918	1.00	14.28
ATOM	10313	CG1	VAL	1543	19.016	-7.885	2.529	1.00	15.11
ATOM	10314	CG2	VAL	1543	18.759	-10.079	1.344	1.00	13.81
ATOM	10315	C	VAL	1543	21.838	-7.785	1.377	1.00	14.63
ATOM	10316	O	VAL	1543	22.264	-7.998	2.516	1.00	14.81
ATOM	10317	N	GLY	1544	22.362	-6.883	0.557	1.00	14.42
ATOM	10318	CA	GLY	1544	23.503	-6.088	0.966	1.00	16.82
ATOM	10319	C	GLY	1544	23.197	-4.703	1.471	1.00	16.06
ATOM	10320	O	GLY	1544	22.122	-4.155	1.207	1.00	17.57
ATOM	10321	N	ASP	1545	24.153	-4.126	2.196	1.00	16.67
ATOM	10322	CA	ASP	1545	23.945	-2.796	2.730	1.00	16.34
ATOM	10323	CB	ASP	1545	24.990	-2.444	3.808	1.00	18.01
ATOM	10324	CG	ASP	1545	26.422	-2.547	3.324	1.00	17.58
ATOM	10325	OD1	ASP	1545	26.656	-2.778	2.126	1.00	18.33
ATOM	10326	OD2	ASP	1545	27.321	-2.384	4.171	1.00	20.23
ATOM	10327	C	ASP	1545	23.910	-1.765	1.613	1.00	15.12
ATOM	10328	O	ASP	1545	23.718	-0.578	1.860	1.00	17.15
ATOM	10329	N	SER	1546	24.066	-2.223	0.373	1.00	15.22
ATOM	10330	CA	SER	1546	23.966	-1.307	-0.752	1.00	13.69
ATOM	10331	CB	SER	1546	24.223	-2.036	-2.077	1.00	16.92
ATOM	10332	OG	SER	1546	23.495	-3.253	-2.157	1.00	16.30
ATOM	10333	C	SER	1546	22.554	-0.721	-0.725	1.00	15.02
ATOM	10334	O	SER	1546	22.302	0.346	-1.289	1.00	16.38
ATOM	10335	N	LEU	1547	21.627	-1.411	-0.057	1.00	13.61
ATOM	10336	CA	LEU	1547	20.255	-0.904	0.033	1.00	13.00
ATOM	10337	CB	LEU	1547	19.359	-1.891	0.804	1.00	14.09
ATOM	10338	CG	LEU	1547	19.730	-2.207	2.259	1.00	11.97
ATOM	10339	CD1	LEU	1547	19.088	-1.193	3.174	1.00	17.68
ATOM	10340	CD2	LEU	1547	19.261	-3.621	2.631	1.00	16.59
ATOM	10341	C	LEU	1547	20.246	0.471	0.711	1.00	13.72
ATOM	10342	O	LEU	1547	19.303	1.249	0.556	1.00	12.82
ATOM	10343	N	GLY	1548	21.302	0.768	1.462	1.00	14.37
ATOM	10344	CA	GLY	1548	21.386	2.059	2.128	1.00	13.78
ATOM	10345	C	GLY	1548	21.310	3.187	1.120	1.00	15.41
ATOM	10346	O	GLY	1548	20.786	4.267	1.403	1.00	15.37

ATOM	10347	N	MET	1549	21.805	2.914	-0.083	1.00	16.39
ATOM	10348	CA	MET	1549	21.825	3.900	-1.151	1.00	16.76
ATOM	10349	CB	MET	1549	23.198	3.852	-1.842	1.00	18.82
ATOM	10350	CG	MET	1549	24.346	4.147	-0.882	1.00	20.11
ATOM	10351	SD	MET	1549	26.012	3.963	-1.563	1.00	26.68
ATOM	10352	CE	MET	1549	26.138	5.439	-2.542	1.00	27.73
ATOM	10353	C	MET	1549	20.696	3.703	-2.165	1.00	17.66
ATOM	10354	O	MET	1549	19.935	4.627	-2.443	1.00	19.20
ATOM	10355	N	THR	1550	20.567	2.495	-2.700	1.00	17.07
ATOM	10356	CA	THR	1550	19.529	2.234	-3.693	1.00	17.56
ATOM	10357	CB	THR	1550	19.809	0.931	-4.439	1.00	21.36
ATOM	10358	OG1	THR	1550	18.737	0.665	-5.349	1.00	29.04
ATOM	10359	CG2	THR	1550	19.953	-0.219	-3.472	1.00	19.69
ATOM	10360	C	THR	1550	18.103	2.191	-3.143	1.00	17.30
ATOM	10361	O	THR	1550	17.144	2.507	-3.853	1.00	19.51
ATOM	10362	N	VAL	1551	17.949	1.800	-1.884	1.00	16.88
ATOM	10363	CA	VAL	1551	16.616	1.741	-1.297	1.00	15.66
ATOM	10364	CB	VAL	1551	16.412	0.423	-0.504	1.00	16.16
ATOM	10365	CG1	VAL	1551	15.077	0.454	0.240	1.00	15.49
ATOM	10366	CG2	VAL	1551	16.436	-0.760	-1.452	1.00	17.32
ATOM	10367	C	VAL	1551	16.344	2.929	-0.377	1.00	14.94
ATOM	10368	O	VAL	1551	15.351	3.635	-0.540	1.00	13.06
ATOM	10369	N	GLN	1552	17.231	3.155	0.584	1.00	13.60
ATOM	10370	CA	GLN	1552	17.041	4.242	1.536	1.00	13.62
ATOM	10371	CB	GLN	1552	17.857	3.963	2.798	1.00	14.36
ATOM	10372	CG	GLN	1552	17.589	2.569	3.329	1.00	15.64
ATOM	10373	CD	GLN	1552	18.298	2.290	4.628	1.00	14.11
ATOM	10374	OE1	GLN	1552	19.342	2.875	4.914	1.00	17.01
ATOM	10375	NE2	GLN	1552	17.744	1.372	5.418	1.00	12.68
ATOM	10376	C	GLN	1552	17.396	5.610	0.968	1.00	12.37
ATOM	10377	O	GLN	1552	16.852	6.625	1.403	1.00	13.34
ATOM	10378	N	GLY	1553	18.312	5.643	0.007	1.00	13.54
ATOM	10379	CA	GLY	1553	18.679	6.914	-0.585	1.00	12.70
ATOM	10380	C	GLY	1553	19.761	7.687	0.140	1.00	16.01
ATOM	10381	O	GLY	1553	19.859	8.905	-0.013	1.00	14.75
ATOM	10382	N	HIS	1554	20.563	6.999	0.948	1.00	16.13
ATOM	10383	CA	HIS	1554	21.659	7.665	1.655	1.00	19.25
ATOM	10384	CB	HIS	1554	22.058	6.870	2.901	1.00	18.68
ATOM	10385	CG	HIS	1554	21.002	6.837	3.962	1.00	18.56
ATOM	10386	CD2	HIS	1554	20.261	5.814	4.452	1.00	18.97
ATOM	10387	ND1	HIS	1554	20.599	7.964	4.646	1.00	19.57
ATOM	10388	CE1	HIS	1554	19.654	7.637	5.509	1.00	21.71
ATOM	10389	NE2	HIS	1554	19.429	6.338	5.412	1.00	16.82
ATOM	10390	C	HIS	1554	22.845	7.761	0.692	1.00	20.59
ATOM	10391	O	HIS	1554	22.867	7.081	-0.332	1.00	20.01
ATOM	10392	N	ASP	1555	23.824	8.604	1.023	1.00	23.52
ATOM	10393	CA	ASP	1555	25.007	8.786	0.182	1.00	25.86
ATOM	10394	CB	ASP	1555	25.650	10.153	0.451	1.00	31.31
ATOM	10395	CG	ASP	1555	25.964	10.375	1.919	1.00	34.15
ATOM	10396	OD1	ASP	1555	26.709	9.570	2.509	1.00	37.32
ATOM	10397	OD2	ASP	1555	25.461	11.366	2.489	1.00	40.85
ATOM	10398	C	ASP	1555	26.055	7.695	0.374	1.00	25.31
ATOM	10399	O	ASP	1555	27.045	7.637	-0.356	1.00	27.92
ATOM	10400	N	SER	1556	25.841	6.832	1.359	1.00	21.86
ATOM	10401	CA	SER	1556	26.769	5.742	1.627	1.00	19.58
ATOM	10402	CB	SER	1556	27.890	6.195	2.569	1.00	18.25
ATOM	10403	OG	SER	1556	27.408	6.452	3.880	1.00	19.02
ATOM	10404	C	SER	1556	25.987	4.608	2.264	1.00	18.25
ATOM	10405	O	SER	1556	24.791	4.739	2.491	1.00	16.30
ATOM	10406	N	THR	1557	26.665	3.505	2.560	1.00	16.59
ATOM	10407	CA	THR	1557	26.011	2.353	3.156	1.00	16.89
ATOM	10408	CB	THR	1557	26.639	1.033	2.664	1.00	17.09
ATOM	10409	OG1	THR	1557	27.965	0.921	3.192	1.00	17.06
ATOM	10410	CG2	THR	1557	26.698	0.996	1.134	1.00	17.62
ATOM	10411	C	THR	1557	26.079	2.350	4.682	1.00	16.25
ATOM	10412	O	THR	1557	25.424	1.530	5.315	1.00	16.54
ATOM	10413	N	LEU	1558	26.858	3.257	5.274	1.00	15.68
ATOM	10414	CA	LEU	1558	27.018	3.301	6.738	1.00	16.74
ATOM	10415	CB	LEU	1558	27.954	4.450	7.141	1.00	17.19
ATOM	10416	CG	LEU	1558	29.465	4.181	7.061	1.00	17.43
ATOM	10417	CD1	LEU	1558	29.864	3.894	5.620	1.00	17.48
ATOM	10418	CD2	LEU	1558	30.223	5.395	7.599	1.00	18.51
ATOM	10419	C	LEU	1558	25.747	3.376	7.596	1.00	15.47
ATOM	10420	O	LEU	1558	25.676	2.770	8.666	1.00	14.85
ATOM	10421	N	PRO	1559	24.736	4.134	7.156	1.00	16.50
ATOM	10422	CD	PRO	1559	24.743	5.128	6.072	1.00	15.31
ATOM	10423	CA	PRO	1559	23.507	4.227	7.951	1.00	15.63



ATOM	10424	CB	PRO	1559	22.736	5.358	7.271	1.00	18.98
ATOM	10425	CG	PRO	1559	23.279	5.362	5.865	1.00	21.76
ATOM	10426	C	PRO	1559	22.685	2.940	8.055	1.00	15.29
ATOM	10427	O	PRO	1559	21.786	2.840	8.894	1.00	16.41
ATOM	10428	N	VAL	1560	22.988	1.951	7.223	1.00	14.37
ATOM	10429	CA	VAL	1560	22.236	0.703	7.263	1.00	13.86
ATOM	10430	CB	VAL	1560	22.636	-0.220	6.088	1.00	13.89
ATOM	10431	CG1	VAL	1560	21.928	-1.553	6.199	1.00	15.90
ATOM	10432	CG2	VAL	1560	22.293	0.446	4.773	1.00	12.67
ATOM	10433	C	VAL	1560	22.500	-0.025	8.579	1.00	13.66
ATOM	10434	O	VAL	1560	23.653	-0.180	8.993	1.00	12.04
ATOM	10435	N	THR	1561	21.448	-0.467	9.254	1.00	14.89
ATOM	10436	CA	THR	1561	21.676	-1.191	10.500	1.00	18.92
ATOM	10437	CB	THR	1561	21.076	-0.416	11.713	1.00	25.70
ATOM	10438	OG1	THR	1561	22.006	0.601	12.128	1.00	30.54
ATOM	10439	CG2	THR	1561	20.806	-1.340	12.899	1.00	27.97
ATOM	10440	C	THR	1561	21.179	-2.632	10.388	1.00	17.00
ATOM	10441	O	THR	1561	20.535	-2.998	9.405	1.00	13.03
ATOM	10442	N	VAL	1562	21.516	-3.458	11.375	1.00	14.93
ATOM	10443	CA	VAL	1562	21.134	-4.868	11.378	1.00	13.72
ATOM	10444	CB	VAL	1562	21.617	-5.554	12.691	1.00	14.94
ATOM	10445	CG1	VAL	1562	21.157	-7.006	12.747	1.00	13.33
ATOM	10446	CG2	VAL	1562	23.136	-5.481	12.760	1.00	15.87
ATOM	10447	C	VAL	1562	19.633	-5.044	11.218	1.00	13.79
ATOM	10448	O	VAL	1562	19.184	-5.919	10.477	1.00	11.90
ATOM	10449	N	ALA	1563	18.862	-4.205	11.906	1.00	12.57
ATOM	10450	CA	ALA	1563	17.410	-4.266	11.818	1.00	13.52
ATOM	10451	CB	ALA	1563	16.793	-3.175	12.665	1.00	15.49
ATOM	10452	C	ALA	1563	16.967	-4.106	10.367	1.00	13.22
ATOM	10453	O	ALA	1563	16.055	-4.796	9.905	1.00	11.97
ATOM	10454	N	ASP	1564	17.603	-3.185	9.649	1.00	13.76
ATOM	10455	CA	ASP	1564	17.258	-2.973	8.243	1.00	14.61
ATOM	10456	CB	ASP	1564	18.111	-1.873	7.601	1.00	12.63
ATOM	10457	CG	ASP	1564	17.836	-0.491	8.172	1.00	15.27
ATOM	10458	OD1	ASP	1564	16.732	-0.262	8.711	1.00	12.78
ATOM	10459	OD2	ASP	1564	18.735	0.359	8.042	1.00	13.15
ATOM	10460	C	ASP	1564	17.501	-4.243	7.448	1.00	13.99
ATOM	10461	O	ASP	1564	16.647	-4.696	6.685	1.00	12.31
ATOM	10462	N	ILE	1565	18.696	-4.802	7.602	1.00	12.52
ATOM	10463	CA	ILE	1565	19.042	-6.019	6.878	1.00	11.04
ATOM	10464	CB	ILE	1565	20.450	-6.514	7.251	1.00	12.44
ATOM	10465	CG2	ILE	1565	20.699	-7.867	6.594	1.00	12.14
ATOM	10466	CG1	ILE	1565	21.501	-5.478	6.817	1.00	9.14
ATOM	10467	CD1	ILE	1565	21.658	-5.322	5.303	1.00	13.72
ATOM	10468	C	ILE	1565	18.034	-7.132	7.160	1.00	11.12
ATOM	10469	O	ILE	1565	17.606	-7.822	6.247	1.00	10.33
ATOM	10470	N	ALA	1566	17.651	-7.309	8.422	1.00	9.51
ATOM	10471	CA	ALA	1566	16.699	-8.364	8.743	1.00	10.56
ATOM	10472	CB	ALA	1566	16.495	-8.460	10.241	1.00	10.34
ATOM	10473	C	ALA	1566	15.365	-8.141	8.050	1.00	8.48
ATOM	10474	O	ALA	1566	14.744	-9.084	7.553	1.00	10.65
ATOM	10475	N	TYR	1567	14.919	-6.894	8.028	1.00	10.49
ATOM	10476	CA	TYR	1567	13.644	-6.538	7.394	1.00	10.89
ATOM	10477	CB	TYR	1567	13.426	-5.023	7.478	1.00	11.37
ATOM	10478	CG	TYR	1567	12.216	-4.515	6.708	1.00	13.66
ATOM	10479	CD1	TYR	1567	10.925	-4.761	7.163	1.00	12.46
ATOM	10480	CE1	TYR	1567	9.816	-4.222	6.513	1.00	14.53
ATOM	10481	CD2	TYR	1567	12.373	-3.724	5.568	1.00	15.00
ATOM	10482	CE2	TYR	1567	11.277	-3.180	4.909	1.00	14.51
ATOM	10483	CZ	TYR	1567	10.002	-3.429	5.391	1.00	14.84
ATOM	10484	OH	TYR	1567	8.917	-2.852	4.784	1.00	13.91
ATOM	10485	C	TYR	1567	13.639	-6.960	5.933	1.00	10.89
ATOM	10486	O	TYR	1567	12.708	-7.617	5.460	1.00	10.65
ATOM	10487	N	HIS	1568	14.682	-6.558	5.217	1.00	10.43
ATOM	10488	CA	HIS	1568	14.775	-6.881	3.801	1.00	10.21
ATOM	10489	CB	HIS	1568	15.842	-5.998	3.140	1.00	11.31
ATOM	10490	CG	HIS	1568	15.411	-4.565	2.971	1.00	11.56
ATOM	10491	CD2	HIS	1568	15.646	-3.467	3.731	1.00	11.51
ATOM	10492	ND1	HIS	1568	14.579	-4.149	1.953	1.00	12.16
ATOM	10493	CE1	HIS	1568	14.319	-2.861	2.091	1.00	13.74
ATOM	10494	NE2	HIS	1568	14.954	-2.422	3.163	1.00	12.66
ATOM	10495	C	HIS	1568	15.044	-8.370	3.594	1.00	11.46
ATOM	10496	O	HIS	1568	14.540	-8.977	2.643	1.00	10.22
ATOM	10497	N	THR	1569	15.819	-8.970	4.492	1.00	10.71
ATOM	10498	CA	THR	1569	16.104	-10.397	4.390	1.00	10.69
ATOM	10499	CB	THR	1569	17.054	-10.853	5.521	1.00	12.47
ATOM	10500	OG1	THR	1569	18.347	-10.273	5.306	1.00	10.54

ATOM	10501	CG2	THR	1569	17.169	-12.392	5.559	1.00	11.72
ATOM	10502	C	THR	1569	14.822	-11.236	4.436	1.00	12.77
ATOM	10503	O	THR	1569	14.657	-12.170	3.646	1.00	11.27
ATOM	10504	N	ALA	1570	13.915	-10.915	5.359	1.00	11.72
ATOM	10505	CA	ALA	1570	12.666	-11.671	5.471	1.00	13.45
ATOM	10506	CB	ALA	1570	11.861	-11.200	6.689	1.00	12.98
ATOM	10507	C	ALA	1570	11.819	-11.544	4.211	1.00	12.73
ATOM	10508	O	ALA	1570	11.182	-12.506	3.784	1.00	13.55
ATOM	10509	N	ALA	1571	11.804	-10.348	3.628	1.00	12.25
ATOM	10510	CA	ALA	1571	11.028	-10.110	2.422	1.00	10.68
ATOM	10511	CB	ALA	1571	11.014	-8.619	2.086	1.00	10.51
ATOM	10512	C	ALA	1571	11.615	-10.907	1.262	1.00	11.99
ATOM	10513	O	ALA	1571	10.881	-11.499	0.477	1.00	11.47
ATOM	10514	N	VAL	1572	12.939	-10.923	1.144	1.00	13.05
ATOM	10515	CA	VAL	1572	13.553	-11.687	0.064	1.00	13.95
ATOM	10516	CB	VAL	1572	15.075	-11.473	0.004	1.00	13.81
ATOM	10517	CG1	VAL	1572	15.701	-12.485	-0.954	1.00	14.45
ATOM	10518	CG2	VAL	1572	15.379	-10.050	-0.458	1.00	14.01
ATOM	10519	C	VAL	1572	13.271	-13.178	0.239	1.00	14.25
ATOM	10520	O	VAL	1572	12.956	-13.888	-0.727	1.00	14.24
ATOM	10521	N	ARG	1573	13.388	-13.659	1.471	1.00	13.28
ATOM	10522	CA	ARG	1573	13.137	-15.066	1.733	1.00	12.96
ATOM	10523	CB	ARG	1573	13.418	-15.409	3.208	1.00	12.40
ATOM	10524	CG	ARG	1573	13.134	-16.875	3.564	1.00	14.12
ATOM	10525	CD	ARG	1573	13.891	-17.820	2.636	1.00	11.99
ATOM	10526	NE	ARG	1573	15.299	-17.944	3.009	1.00	15.31
ATOM	10527	CZ	ARG	1573	16.238	-18.497	2.248	1.00	17.73
ATOM	10528	NH1	ARG	1573	15.931	-18.981	1.048	1.00	18.85
ATOM	10529	NH2	ARG	1573	17.486	-18.589	2.696	1.00	15.43
ATOM	10530	C	ARG	1573	11.701	-15.460	1.358	1.00	12.91
ATOM	10531	O	ARG	1573	11.467	-16.569	0.882	1.00	14.66
ATOM	10532	N	ARG	1574	10.740	-14.561	1.559	1.00	15.46
ATOM	10533	CA	ARG	1574	9.356	-14.883	1.214	1.00	13.92
ATOM	10534	CB	ARG	1574	8.392	-13.802	1.707	1.00	14.87
ATOM	10535	CG	ARG	1574	8.358	-13.622	3.212	1.00	17.41
ATOM	10536	CD	ARG	1574	7.182	-12.767	3.655	1.00	17.23
ATOM	10537	NE	ARG	1574	7.241	-12.534	5.096	1.00	19.59
ATOM	10538	CZ	ARG	1574	7.851	-11.505	5.673	1.00	20.15
ATOM	10539	NH1	ARG	1574	8.459	-10.577	4.939	1.00	17.97
ATOM	10540	NH2	ARG	1574	7.882	-11.421	6.995	1.00	23.22
ATOM	10541	C	ARG	1574	9.210	-15.013	-0.294	1.00	13.49
ATOM	10542	O	ARG	1574	8.380	-15.777	-0.786	1.00	14.10
ATOM	10543	N	GLY	1575	10.017	-14.256	-1.024	1.00	12.47
ATOM	10544	CA	GLY	1575	9.949	-14.297	-2.474	1.00	15.24
ATOM	10545	C	GLY	1575	10.693	-15.461	-3.096	1.00	16.10
ATOM	10546	O	GLY	1575	10.307	-15.961	-4.150	1.00	17.71
ATOM	10547	N	ALA	1576	11.761	-15.894	-2.441	1.00	15.51
ATOM	10548	CA	ALA	1576	12.577	-16.990	-2.950	1.00	16.76
ATOM	10549	CB	ALA	1576	13.834	-16.430	-3.584	1.00	18.02
ATOM	10550	C	ALA	1576	12.935	-17.923	-1.800	1.00	16.86
ATOM	10551	O	ALA	1576	14.065	-17.923	-1.318	1.00	17.30
ATOM	10552	N	PRO	1577	11.977	-18.756	-1.368	1.00	18.36
ATOM	10553	CD	PRO	1577	10.647	-18.935	-1.980	1.00	17.74
ATOM	10554	CA	PRO	1577	12.176	-19.696	-0.262	1.00	19.18
ATOM	10555	CB	PRO	1577	10.783	-20.287	-0.063	1.00	19.74
ATOM	10556	CG	PRO	1577	10.218	-20.291	-1.442	1.00	22.52
ATOM	10557	C	PRO	1577	13.255	-20.767	-0.421	1.00	21.10
ATOM	10558	O	PRO	1577	13.664	-21.380	0.566	1.00	21.21
ATOM	10559	N	ASN	1578	13.725	-20.987	-1.647	1.00	19.12
ATOM	10560	CA	ASN	1578	14.741	-22.008	-1.879	1.00	19.33
ATOM	10561	CB	ASN	1578	14.237	-23.029	-2.898	1.00	23.93
ATOM	10562	CG	ASN	1578	12.980	-23.737	-2.435	1.00	26.55
ATOM	10563	OD1	ASN	1578	12.942	-24.304	-1.344	1.00	30.38
ATOM	10564	ND2	ASN	1578	11.942	-23.707	-3.266	1.00	30.04
ATOM	10565	C	ASN	1578	16.077	-21.465	-2.347	1.00	18.42
ATOM	10566	O	ASN	1578	16.972	-22.230	-2.711	1.00	17.87
ATOM	10567	N	CYS	1579	16.230	-20.148	-2.333	1.00	16.75
ATOM	10568	CA	CYS	1579	17.486	-19.565	-2.794	1.00	16.63
ATOM	10569	CB	CYS	1579	17.268	-18.119	-3.256	1.00	18.58
ATOM	10570	SG	CYS	1579	17.273	-16.870	-1.911	1.00	20.66
ATOM	10571	C	CYS	1579	18.550	-19.569	-1.708	1.00	16.46
ATOM	10572	O	CYS	1579	18.254	-19.737	-0.523	1.00	16.94
ATOM	10573	N	LEU	1580	19.797	-19.406	-2.127	1.00	16.30
ATOM	10574	CA	LEU	1580	20.901	-19.306	-1.183	1.00	16.34
ATOM	10575	CB	LEU	1580	22.225	-19.741	-1.820	1.00	16.18
ATOM	10576	CG	LEU	1580	23.496	-19.451	-1.005	1.00	16.78
ATOM	10577	CD1	LEU	1580	23.455	-20.123	0.360	1.00	18.05

ATOM	10578	CD2	LEU	1580	24.697	-19.931	-1.797	1.00	19.94
ATOM	10579	C	LEU	1580	20.894	-17.803	-0.914	1.00	16.05
ATOM	10580	O	LEU	1580	21.150	-16.998	-1.813	1.00	13.83
ATOM	10581	N	LEU	1581	20.568	-17.437	0.321	1.00	16.04
ATOM	10582	CA	LEU	1581	20.455	-16.039	0.704	1.00	15.99
ATOM	10583	CB	LEU	1581	19.135	-15.812	1.472	1.00	16.23
ATOM	10584	CG	LEU	1581	18.506	-14.413	1.600	1.00	17.05
ATOM	10585	CD1	LEU	1581	17.114	-14.552	2.230	1.00	16.42
ATOM	10586	CD2	LEU	1581	19.380	-13.487	2.444	1.00	19.60
ATOM	10587	C	LEU	1581	21.617	-15.583	1.569	1.00	16.66
ATOM	10588	O	LEU	1581	21.781	-16.063	2.684	1.00	15.52
ATOM	10589	N	LEU	1582	22.428	-14.679	1.032	1.00	15.45
ATOM	10590	CA	LEU	1582	23.536	-14.105	1.761	1.00	16.37
ATOM	10591	CB	LEU	1582	24.732	-13.839	0.850	1.00	17.30
ATOM	10592	CG	LEU	1582	25.836	-14.894	0.746	1.00	18.08
ATOM	10593	CD1	LEU	1582	25.274	-16.177	0.172	1.00	19.04
ATOM	10594	CD2	LEU	1582	26.966	-14.348	-0.130	1.00	20.45
ATOM	10595	C	LEU	1582	23.032	-12.769	2.290	1.00	16.32
ATOM	10596	O	LEU	1582	22.308	-12.046	1.593	1.00	18.36
ATOM	10597	N	ALA	1583	23.399	-12.447	3.521	1.00	15.51
ATOM	10598	CA	ALA	1583	22.999	-11.183	4.111	1.00	14.69
ATOM	10599	CB	ALA	1583	21.994	-11.416	5.219	1.00	14.69
ATOM	10600	C	ALA	1583	24.234	-10.491	4.667	1.00	14.14
ATOM	10601	O	ALA	1583	25.051	-11.112	5.344	1.00	13.73
ATOM	10602	N	ASP	1584	24.376	-9.207	4.362	1.00	13.35
ATOM	10603	CA	ASP	1584	25.505	-8.429	4.855	1.00	14.49
ATOM	10604	CB	ASP	1584	25.647	-7.117	4.091	1.00	15.94
ATOM	10605	CG	ASP	1584	26.458	-7.241	2.830	1.00	17.35
ATOM	10606	OD1	ASP	1584	27.193	-8.226	2.661	1.00	20.03
ATOM	10607	OD2	ASP	1584	26.357	-6.311	2.006	1.00	18.72
ATOM	10608	C	ASP	1584	25.332	-8.032	6.304	1.00	13.45
ATOM	10609	O	ASP	1584	24.219	-7.753	6.739	1.00	12.56
ATOM	10610	N	LEU	1585	26.427	-8.040	7.056	1.00	12.65
ATOM	10611	CA	LEU	1585	26.381	-7.514	8.410	1.00	13.11
ATOM	10612	CB	LEU	1585	27.360	-8.227	9.356	1.00	13.48
ATOM	10613	CG	LEU	1585	26.969	-9.646	9.777	1.00	13.68
ATOM	10614	CD1	LEU	1585	27.863	-10.134	10.933	1.00	12.03
ATOM	10615	CD2	LEU	1585	25.504	-9.664	10.207	1.00	14.07
ATOM	10616	C	LEU	1585	26.877	-6.102	8.080	1.00	15.51
ATOM	10617	O	LEU	1585	27.954	-5.926	7.483	1.00	15.43
ATOM	10618	N	PRO	1586	26.083	-5.082	8.422	1.00	14.53
ATOM	10619	CD	PRO	1586	24.747	-5.205	9.030	1.00	16.55
ATOM	10620	CA	PRO	1586	26.413	-3.681	8.163	1.00	14.80
ATOM	10621	CB	PRO	1586	25.078	-2.974	8.385	1.00	14.42
ATOM	10622	CG	PRO	1586	24.459	-3.794	9.483	1.00	15.58
ATOM	10623	C	PRO	1586	27.540	-3.066	8.993	1.00	15.36
ATOM	10624	O	PRO	1586	28.135	-3.709	9.864	1.00	13.48
ATOM	10625	N	PHE	1587	27.808	-1.799	8.695	1.00	13.29
ATOM	10626	CA	PHE	1587	28.831	-1.006	9.359	1.00	15.40
ATOM	10627	CB	PHE	1587	28.626	0.466	8.995	1.00	15.27
ATOM	10628	CG	PHE	1587	29.456	1.415	9.808	1.00	16.43
ATOM	10629	CD1	PHE	1587	30.845	1.346	9.776	1.00	15.91
ATOM	10630	CD2	PHE	1587	28.848	2.378	10.610	1.00	16.81
ATOM	10631	CE1	PHE	1587	31.619	2.215	10.533	1.00	19.06
ATOM	10632	CE2	PHE	1587	29.619	3.257	11.374	1.00	18.87
ATOM	10633	CZ	PHE	1587	31.009	3.174	11.332	1.00	18.40
ATOM	10634	C	PHE	1587	28.804	-1.176	10.875	1.00	14.93
ATOM	10635	O	PHE	1587	27.783	-0.954	11.513	1.00	13.77
ATOM	10636	N	MET	1588	29.944	-1.580	11.431	1.00	16.41
ATOM	10637	CA	MET	1588	30.115	-1.783	12.866	1.00	15.60
ATOM	10638	CB	MET	1588	29.958	-0.452	13.610	1.00	15.47
ATOM	10639	CG	MET	1588	30.753	-0.398	14.899	1.00	17.28
ATOM	10640	SD	MET	1588	32.552	-0.481	14.654	1.00	16.90
ATOM	10641	CE	MET	1588	32.900	1.224	14.358	1.00	19.88
ATOM	10642	C	MET	1588	29.182	-2.825	13.480	1.00	14.81
ATOM	10643	O	MET	1588	28.832	-2.742	14.659	1.00	16.79
ATOM	10644	N	ALA	1589	28.782	-3.809	12.689	1.00	13.82
ATOM	10645	CA	ALA	1589	27.901	-4.853	13.196	1.00	14.09
ATOM	10646	CB	ALA	1589	26.873	-5.228	12.123	1.00	14.61
ATOM	10647	C	ALA	1589	28.707	-6.079	13.617	1.00	14.92
ATOM	10648	O	ALA	1589	28.148	-7.055	14.116	1.00	17.78
ATOM	10649	N	TYR	1590	30.024	-6.023	13.421	1.00	14.09
ATOM	10650	CA	TYR	1590	30.911	-7.130	13.775	1.00	15.98
ATOM	10651	CB	TYR	1590	31.164	-8.010	12.543	1.00	16.40
ATOM	10652	CG	TYR	1590	31.512	-7.250	11.277	1.00	15.39
ATOM	10653	CD1	TYR	1590	32.816	-7.232	10.783	1.00	13.60
ATOM	10654	CE1	TYR	1590	33.127	-6.558	9.596	1.00	15.26

ATOM	10655	CD2	TYR	1590	30.524	-6.571	10.559	1.00	14.41
ATOM	10656	CE2	TYR	1590	30.818	-5.895	9.378	1.00	14.95
ATOM	10657	CZ	TYR	1590	32.118	-5.895	8.901	1.00	14.53
ATOM	10658	OH	TYR	1590	32.380	-5.247	7.718	1.00	14.98
ATOM	10659	C	TYR	1590	32.225	-6.601	14.334	1.00	16.91
ATOM	10660	O	TYR	1590	33.303	-7.077	13.980	1.00	17.15
ATOM	10661	N	ALA	1591	32.109	-5.626	15.235	1.00	16.90
ATOM	10662	CA	ALA	1591	33.257	-4.973	15.863	1.00	18.12
ATOM	10663	CB	ALA	1591	32.790	-3.734	16.617	1.00	16.82
ATOM	10664	C	ALA	1591	34.012	-5.909	16.798	1.00	17.70
ATOM	10665	O	ALA	1591	35.212	-5.759	17.005	1.00	16.35
ATOM	10666	N	THR	1592	33.289	-6.868	17.366	1.00	17.84
ATOM	10667	CA	THR	1592	33.871	-7.863	18.254	1.00	17.19
ATOM	10668	CB	THR	1592	33.583	-7.570	19.739	1.00	17.53
ATOM	10669	OG1	THR	1592	32.176	-7.682	19.991	1.00	16.88
ATOM	10670	CG2	THR	1592	34.059	-6.169	20.112	1.00	16.17
ATOM	10671	C	THR	1592	33.208	-9.184	17.900	1.00	15.81
ATOM	10672	O	THR	1592	32.114	-9.201	17.329	1.00	13.62
ATOM	10673	N	PRO	1593	33.860	-10.310	18.223	1.00	16.07
ATOM	10674	CD	PRO	1593	35.254	-10.465	18.675	1.00	16.83
ATOM	10675	CA	PRO	1593	33.260	-11.607	17.903	1.00	16.05
ATOM	10676	CB	PRO	1593	34.278	-12.599	18.459	1.00	17.78
ATOM	10677	CG	PRO	1593	35.587	-11.877	18.233	1.00	16.98
ATOM	10678	C	PRO	1593	31.874	-11.769	18.531	1.00	16.88
ATOM	10679	O	PRO	1593	30.934	-12.190	17.858	1.00	15.90
ATOM	10680	N	GLU	1594	31.746	-11.417	19.810	1.00	17.16
ATOM	10681	CA	GLU	1594	30.467	-11.548	20.507	1.00	17.81
ATOM	10682	CB	GLU	1594	30.606	-11.095	21.966	1.00	21.81
ATOM	10683	CG	GLU	1594	29.392	-11.407	22.830	1.00	29.07
ATOM	10684	CD	GLU	1594	29.657	-11.163	24.308	1.00	34.97
ATOM	10685	OE1	GLU	1594	30.087	-10.036	24.649	1.00	37.17
ATOM	10686	OE2	GLU	1594	29.429	-12.091	25.124	1.00	37.45
ATOM	10687	C	GLU	1594	29.369	-10.755	19.817	1.00	16.20
ATOM	10688	O	GLU	1594	28.233	-11.210	19.721	1.00	14.75
ATOM	10689	N	GLN	1595	29.708	-9.568	19.326	1.00	16.15
ATOM	10690	CA	GLN	1595	28.715	-8.749	18.645	1.00	16.61
ATOM	10691	CB	GLN	1595	29.209	-7.319	18.489	1.00	19.07
ATOM	10692	CG	GLN	1595	29.345	-6.591	19.814	1.00	25.36
ATOM	10693	CD	GLN	1595	29.618	-5.113	19.634	1.00	28.24
ATOM	10694	OE1	GLN	1595	28.854	-4.411	18.974	1.00	30.74
ATOM	10695	NE2	GLN	1595	30.709	-4.629	20.228	1.00	31.60
ATOM	10696	C	GLN	1595	28.401	-9.344	17.282	1.00	13.90
ATOM	10697	O	GLN	1595	27.261	-9.290	16.826	1.00	12.90
ATOM	10698	N	ALA	1596	29.410	-9.918	16.636	1.00	12.16
ATOM	10699	CA	ALA	1596	29.184	-10.530	15.339	1.00	12.33
ATOM	10700	CB	ALA	1596	30.494	-10.993	14.730	1.00	11.02
ATOM	10701	C	ALA	1596	28.212	-11.702	15.484	1.00	12.04
ATOM	10702	O	ALA	1596	27.345	-11.897	14.632	1.00	11.82
ATOM	10703	N	PHE	1597	28.340	-12.470	16.566	1.00	13.20
ATOM	10704	CA	PHE	1597	27.460	-13.630	16.787	1.00	12.23
ATOM	10705	CB	PHE	1597	27.823	-14.392	18.077	1.00	11.34
ATOM	10706	CG	PHE	1597	29.267	-14.829	18.165	1.00	12.72
ATOM	10707	CD1	PHE	1597	29.996	-15.142	17.018	1.00	14.75
ATOM	10708	CD2	PHE	1597	29.881	-14.963	19.406	1.00	13.59
ATOM	10709	CE1	PHE	1597	31.323	-15.586	17.107	1.00	15.56
ATOM	10710	CE2	PHE	1597	31.204	-15.407	19.513	1.00	13.42
ATOM	10711	CZ	PHE	1597	31.921	-15.718	18.354	1.00	15.98
ATOM	10712	C	PHE	1597	26.005	-13.205	16.912	1.00	12.63
ATOM	10713	O	PHE	1597	25.114	-13.834	16.346	1.00	12.34
ATOM	10714	N	GLU	1598	25.778	-12.134	17.667	1.00	12.52
ATOM	10715	CA	GLU	1598	24.434	-11.641	17.892	1.00	13.41
ATOM	10716	CB	GLU	1598	24.456	-10.541	18.955	1.00	16.36
ATOM	10717	CG	GLU	1598	23.081	-10.001	19.313	1.00	23.47
ATOM	10718	CD	GLU	1598	22.273	-10.950	20.189	1.00	28.97
ATOM	10719	OE1	GLU	1598	22.481	-12.188	20.109	1.00	31.03
ATOM	10720	OE2	GLU	1598	21.414	-10.452	20.953	1.00	32.01
ATOM	10721	C	GLU	1598	23.783	-11.113	16.615	1.00	12.74
ATOM	10722	O	GLU	1598	22.634	-11.425	16.321	1.00	11.28
ATOM	10723	N	ASN	1599	24.518	-10.316	15.852	1.00	12.02
ATOM	10724	CA	ASN	1599	23.953	-9.758	14.640	1.00	11.59
ATOM	10725	CB	ASN	1599	24.740	-8.513	14.228	1.00	12.97
ATOM	10726	CG	ASN	1599	24.671	-7.422	15.295	1.00	13.26
ATOM	10727	OD1	ASN	1599	23.617	-7.218	15.908	1.00	13.34
ATOM	10728	ND2	ASN	1599	25.774	-6.712	15.510	1.00	13.73
ATOM	10729	C	ASN	1599	23.865	-10.771	13.507	1.00	11.88
ATOM	10730	O	ASN	1599	22.961	-10.696	12.677	1.00	11.95
ATOM	10731	N	ALA	1600	24.790	-11.724	13.471	1.00	9.53

ATOM	10732	CA	ALA	1600	24.732	-12.754	12.440	1.00	11.81
ATOM	10733	CB	ALA	1600	25.994	-13.610	12.462	1.00	11.15
ATOM	10734	C	ALA	1600	23.503	-13.615	12.742	1.00	11.76
ATOM	10735	O	ALA	1600	22.763	-13.990	11.838	1.00	12.58
ATOM	10736	N	ALA	1601	23.283	-13.922	14.019	1.00	11.05
ATOM	10737	CA	ALA	1601	22.142	-14.746	14.391	1.00	11.07
ATOM	10738	CB	ALA	1601	22.183	-15.080	15.889	1.00	12.88
ATOM	10739	C	ALA	1601	20.830	-14.051	14.038	1.00	11.65
ATOM	10740	O	ALA	1601	19.868	-14.700	13.624	1.00	12.48
ATOM	10741	N	THR	1602	20.782	-12.735	14.198	1.00	10.09
ATOM	10742	CA	THR	1602	19.565	-11.980	13.884	1.00	10.55
ATOM	10743	CB	THR	1602	19.718	-10.486	14.224	1.00	10.24
ATOM	10744	OG1	THR	1602	19.875	-10.342	15.638	1.00	12.17
ATOM	10745	CG2	THR	1602	18.491	-9.703	13.773	1.00	11.96
ATOM	10746	C	THR	1602	19.211	-12.089	12.408	1.00	11.71
ATOM	10747	O	THR	1602	18.060	-12.356	12.052	1.00	10.21
ATOM	10748	N	VAL	1603	20.193	-11.884	11.538	1.00	8.99
ATOM	10749	CA	VAL	1603	19.897	-11.956	10.120	1.00	10.74
ATOM	10750	CB	VAL	1603	20.997	-11.276	9.280	1.00	12.65
ATOM	10751	CG1	VAL	1603	20.519	-11.129	7.858	1.00	19.78
ATOM	10752	CG2	VAL	1603	21.309	-9.885	9.854	1.00	13.29
ATOM	10753	C	VAL	1603	19.679	-13.401	9.675	1.00	10.88
ATOM	10754	O	VAL	1603	18.931	-13.651	8.733	1.00	11.56
ATOM	10755	N	MET	1604	20.322	-14.354	10.352	1.00	10.50
ATOM	10756	CA	MET	1604	20.118	-15.768	10.024	1.00	11.08
ATOM	10757	CB	MET	1604	21.082	-16.672	10.806	1.00	15.41
ATOM	10758	CG	MET	1604	22.562	-16.538	10.462	1.00	18.50
ATOM	10759	SD	MET	1604	22.958	-17.034	8.795	1.00	27.30
ATOM	10760	CE	MET	1604	22.871	-18.884	8.916	1.00	21.09
ATOM	10761	C	MET	1604	18.677	-16.169	10.383	1.00	10.81
ATOM	10762	O	MET	1604	17.984	-16.794	9.584	1.00	13.07
ATOM	10763	N	ARG	1605	18.222	-15.811	11.584	1.00	11.02
ATOM	10764	CA	ARG	1605	16.861	-16.158	11.992	1.00	12.52
ATOM	10765	CB	ARG	1605	16.582	-15.724	13.444	1.00	13.71
ATOM	10766	CG	ARG	1605	17.431	-16.445	14.496	1.00	13.88
ATOM	10767	CD	ARG	1605	16.798	-16.395	15.889	1.00	14.01
ATOM	10768	NE	ARG	1605	17.771	-16.750	16.919	1.00	18.79
ATOM	10769	CZ	ARG	1605	18.649	-15.898	17.433	1.00	18.25
ATOM	10770	NH1	ARG	1605	18.670	-14.636	17.025	1.00	18.55
ATOM	10771	NH2	ARG	1605	19.521	-16.314	18.333	1.00	18.62
ATOM	10772	C	ARG	1605	15.814	-15.534	11.070	1.00	12.91
ATOM	10773	O	ARG	1605	14.724	-16.090	10.900	1.00	12.21
ATOM	10774	N	ALA	1606	16.141	-14.386	10.481	1.00	11.94
ATOM	10775	CA	ALA	1606	15.223	-13.704	9.575	1.00	12.22
ATOM	10776	CB	ALA	1606	15.632	-12.232	9.409	1.00	11.74
ATOM	10777	C	ALA	1606	15.136	-14.374	8.199	1.00	13.18
ATOM	10778	O	ALA	1606	14.274	-14.021	7.392	1.00	14.17
ATOM	10779	N	GLY	1607	16.023	-15.331	7.929	1.00	12.39
ATOM	10780	CA	GLY	1607	15.980	-16.029	6.653	1.00	11.87
ATOM	10781	C	GLY	1607	17.288	-16.273	5.907	1.00	11.83
ATOM	10782	O	GLY	1607	17.316	-17.063	4.960	1.00	15.36
ATOM	10783	N	ALA	1608	18.368	-15.612	6.316	1.00	11.14
ATOM	10784	CA	ALA	1608	19.668	-15.767	5.651	1.00	11.81
ATOM	10785	CB	ALA	1608	20.621	-14.689	6.146	1.00	13.69
ATOM	10786	C	ALA	1608	20.294	-17.151	5.870	1.00	13.84
ATOM	10787	O	ALA	1608	20.013	-17.799	6.870	1.00	11.53
ATOM	10788	N	ASN	1609	21.135	-17.602	4.934	1.00	13.34
ATOM	10789	CA	ASN	1609	21.814	-18.895	5.077	1.00	13.10
ATOM	10790	CB	ASN	1609	21.736	-19.734	3.797	1.00	14.21
ATOM	10791	CG	ASN	1609	20.321	-20.082	3.407	1.00	15.93
ATOM	10792	OD1	ASN	1609	19.606	-20.775	4.137	1.00	18.98
ATOM	10793	ND2	ASN	1609	19.910	-19.610	2.250	1.00	12.95
ATOM	10794	C	ASN	1609	23.293	-18.648	5.344	1.00	14.73
ATOM	10795	O	ASN	1609	24.021	-19.533	5.794	1.00	15.75
ATOM	10796	N	MET	1610	23.732	-17.435	5.049	1.00	13.00
ATOM	10797	CA	MET	1610	25.132	-17.083	5.197	1.00	13.92
ATOM	10798	CB	MET	1610	25.864	-17.514	3.925	1.00	14.99
ATOM	10799	CG	MET	1610	27.293	-17.047	3.789	1.00	18.34
ATOM	10800	SD	MET	1610	27.934	-17.568	2.175	1.00	19.59
ATOM	10801	CE	MET	1610	28.973	-18.934	2.662	1.00	21.61
ATOM	10802	C	MET	1610	25.270	-15.586	5.421	1.00	13.22
ATOM	10803	O	MET	1610	24.400	-14.808	5.028	1.00	12.57
ATOM	10804	N	VAL	1611	26.366	-15.185	6.053	1.00	13.16
ATOM	10805	CA	VAL	1611	26.603	-13.782	6.336	1.00	14.59
ATOM	10806	CB	VAL	1611	26.750	-13.580	7.859	1.00	18.07
ATOM	10807	CG1	VAL	1611	27.320	-12.237	8.152	1.00	23.20
ATOM	10808	CG2	VAL	1611	25.389	-13.741	8.535	1.00	17.45

ATOM	10809	C	VAL	1611	27.853	-13.289	5.621	1.00	15.11
ATOM	10810	O	VAL	1611	28.844	-14.016	5.518	1.00	13.59
ATOM	10811	N	LYS	1612	27.797	-12.061	5.108	1.00	13.93
ATOM	10812	CA	LYS	1612	28.942	-11.471	4.420	1.00	13.65
ATOM	10813	CB	LYS	1612	28.541	-10.980	3.023	1.00	16.26
ATOM	10814	CG	LYS	1612	29.718	-10.435	2.207	1.00	16.17
ATOM	10815	CD	LYS	1612	29.419	-10.402	0.703	1.00	19.74
ATOM	10816	CE	LYS	1612	28.447	-9.294	0.338	1.00	20.53
ATOM	10817	NZ	LYS	1612	29.054	-7.938	0.547	1.00	18.43
ATOM	10818	C	LYS	1612	29.476	-10.307	5.239	1.00	14.73
ATOM	10819	O	LYS	1612	28.709	-9.454	5.680	1.00	15.46
ATOM	10820	N	ILE	1613	30.792	-10.280	5.439	1.00	15.79
ATOM	10821	CA	ILE	1613	31.436	-9.215	6.210	1.00	17.39
ATOM	10822	CB	ILE	1613	31.868	-9.699	7.623	1.00	17.61
ATOM	10823	CG2	ILE	1613	30.642	-9.920	8.507	1.00	18.44
ATOM	10824	CG1	ILE	1613	32.706	-10.972	7.502	1.00	18.71
ATOM	10825	CD1	ILE	1613	33.102	-11.573	8.835	1.00	21.00
ATOM	10826	C	ILE	1613	32.674	-8.698	5.487	1.00	17.52
ATOM	10827	O	ILE	1613	33.363	-9.453	4.805	1.00	17.34
ATOM	10828	N	GLU	1614	32.948	-7.410	5.658	1.00	18.44
ATOM	10829	CA	GLU	1614	34.077	-6.756	5.014	1.00	22.04
ATOM	10830	CB	GLU	1614	33.699	-5.319	4.650	1.00	21.72
ATOM	10831	CG	GLU	1614	32.556	-5.213	3.663	1.00	24.57
ATOM	10832	CD	GLU	1614	32.210	-3.773	3.316	1.00	25.01
ATOM	10833	OE1	GLU	1614	33.048	-2.879	3.551	1.00	25.95
ATOM	10834	OE2	GLU	1614	31.103	-3.535	2.793	1.00	26.44
ATOM	10835	C	GLU	1614	35.330	-6.730	5.879	1.00	22.81
ATOM	10836	O	GLU	1614	35.270	-6.387	7.059	1.00	23.72
ATOM	10837	N	GLY	1615	36.469	-7.082	5.292	1.00	24.76
ATOM	10838	CA	GLY	1615	37.706	-7.063	6.052	1.00	26.31
ATOM	10839	C	GLY	1615	38.657	-8.191	5.724	1.00	25.48
ATOM	10840	O	GLY	1615	38.264	-9.195	5.132	1.00	26.13
ATOM	10841	N	GLY	1616	39.916	-8.024	6.117	1.00	26.28
ATOM	10842	CA	GLY	1616	40.917	-9.043	5.855	1.00	25.88
ATOM	10843	C	GLY	1616	41.395	-9.771	7.101	1.00	26.83
ATOM	10844	O	GLY	1616	40.592	-10.313	7.862	1.00	26.50
ATOM	10845	N	GLU	1617	42.712	-9.780	7.293	1.00	23.60
ATOM	10846	CA	GLU	1617	43.369	-10.427	8.427	1.00	25.78
ATOM	10847	CB	GLU	1617	44.811	-9.923	8.554	1.00	28.43
ATOM	10848	CG	GLU	1617	45.856	-10.775	7.868	1.00	35.94
ATOM	10849	CD	GLU	1617	46.136	-12.074	8.604	1.00	39.30
ATOM	10850	OE1	GLU	1617	45.199	-12.883	8.770	1.00	39.90
ATOM	10851	OE2	GLU	1617	47.299	-12.283	9.015	1.00	39.51
ATOM	10852	C	GLU	1617	42.718	-10.294	9.800	1.00	23.15
ATOM	10853	O	GLU	1617	42.527	-11.289	10.499	1.00	24.44
ATOM	10854	N	TRP	1618	42.404	-9.069	10.202	1.00	22.84
ATOM	10855	CA	TRP	1618	41.830	-8.855	11.518	1.00	20.46
ATOM	10856	CB	TRP	1618	41.607	-7.364	11.776	1.00	21.59
ATOM	10857	CG	TRP	1618	40.461	-6.766	11.040	1.00	19.95
ATOM	10858	CD2	TRP	1618	39.152	-6.510	11.563	1.00	19.68
ATOM	10859	CE2	TRP	1618	38.392	-5.939	10.521	1.00	17.75
ATOM	10860	CE3	TRP	1618	38.544	-6.723	12.809	1.00	18.42
ATOM	10861	CD1	TRP	1618	40.446	-6.348	9.745	1.00	20.31
ATOM	10862	NE1	TRP	1618	39.205	-5.845	9.423	1.00	19.55
ATOM	10863	CZ2	TRP	1618	37.054	-5.557	10.690	1.00	17.13
ATOM	10864	CZ3	TRP	1618	37.214	-6.345	12.977	1.00	18.71
ATOM	10865	CH2	TRP	1618	36.482	-5.771	11.915	1.00	19.07
ATOM	10866	C	TRP	1618	40.544	-9.619	11.787	1.00	20.59
ATOM	10867	O	TRP	1618	40.136	-9.746	12.938	1.00	18.49
ATOM	10868	N	LEU	1619	39.917	-10.144	10.737	1.00	21.43
ATOM	10869	CA	LEU	1619	38.668	-10.886	10.893	1.00	20.49
ATOM	10870	CB	LEU	1619	37.751	-10.622	9.696	1.00	20.97
ATOM	10871	CG	LEU	1619	37.106	-9.238	9.620	1.00	21.93
ATOM	10872	CD1	LEU	1619	36.316	-9.117	8.338	1.00	22.24
ATOM	10873	CD2	LEU	1619	36.200	-9.039	10.833	1.00	23.75
ATOM	10874	C	LEU	1619	38.817	-12.395	11.067	1.00	19.39
ATOM	10875	O	LEU	1619	37.821	-13.094	11.238	1.00	16.11
ATOM	10876	N	VAL	1620	40.047	-12.899	11.034	1.00	18.75
ATOM	10877	CA	VAL	1620	40.284	-14.334	11.174	1.00	18.47
ATOM	10878	CB	VAL	1620	41.798	-14.645	11.309	1.00	20.23
ATOM	10879	CG1	VAL	1620	42.007	-16.107	11.660	1.00	20.87
ATOM	10880	CG2	VAL	1620	42.505	-14.331	10.003	1.00	22.98
ATOM	10881	C	VAL	1620	39.553	-14.972	12.349	1.00	18.83
ATOM	10882	O	VAL	1620	38.847	-15.965	12.173	1.00	18.24
ATOM	10883	N	GLU	1621	39.731	-14.411	13.543	1.00	18.17
ATOM	10884	CA	GLU	1621	39.088	-14.946	14.741	1.00	18.85
ATOM	10885	CB	GLU	1621	39.479	-14.109	15.969	1.00	18.97

ATOM	10886	CG	GLU	1621	38.815	-14.561	17.256	1.00	22.60
ATOM	10887	CD	GLU	1621	39.265	-13.760	18.471	1.00	25.26
ATOM	10888	OE1	GLU	1621	39.153	-12.515	18.453	1.00	24.17
ATOM	10889	OE2	GLU	1621	39.730	-14.383	19.446	1.00	28.44
ATOM	10890	C	GLU	1621	37.571	-14.962	14.599	1.00	16.87
ATOM	10891	O	GLU	1621	36.915	-15.951	14.909	1.00	16.16
ATOM	10892	N	THR	1622	37.023	-13.855	14.118	1.00	17.23
ATOM	10893	CA	THR	1622	35.583	-13.729	13.938	1.00	15.12
ATOM	10894	CB	THR	1622	35.238	-12.319	13.420	1.00	16.38
ATOM	10895	OG1	THR	1622	35.730	-11.345	14.356	1.00	17.00
ATOM	10896	CG2	THR	1622	33.727	-12.140	13.272	1.00	14.48
ATOM	10897	C	THR	1622	35.048	-14.797	12.985	1.00	15.13
ATOM	10898	O	THR	1622	34.064	-15.464	13.293	1.00	13.37
ATOM	10899	N	VAL	1623	35.696	-14.963	11.832	1.00	13.92
ATOM	10900	CA	VAL	1623	35.258	-15.969	10.862	1.00	14.72
ATOM	10901	CB	VAL	1623	36.102	-15.907	9.569	1.00	14.99
ATOM	10902	CG1	VAL	1623	35.676	-17.017	8.602	1.00	16.56
ATOM	10903	CG2	VAL	1623	35.936	-14.548	8.921	1.00	14.47
ATOM	10904	C	VAL	1623	35.345	-17.382	11.452	1.00	15.17
ATOM	10905	O	VAL	1623	34.424	-18.186	11.308	1.00	13.99
ATOM	10906	N	GLN	1624	36.456	-17.680	12.118	1.00	14.83
ATOM	10907	CA	GLN	1624	36.641	-18.992	12.729	1.00	17.43
ATOM	10908	CB	GLN	1624	38.012	-19.073	13.415	1.00	20.41
ATOM	10909	CG	GLN	1624	39.205	-18.806	12.499	1.00	28.20
ATOM	10910	CD	GLN	1624	40.540	-18.963	13.210	1.00	31.26
ATOM	10911	OE1	GLN	1624	40.789	-18.329	14.238	1.00	33.11
ATOM	10912	NE2	GLN	1624	41.408	-19.809	12.661	1.00	32.88
ATOM	10913	C	GLN	1624	35.544	-19.296	13.755	1.00	15.38
ATOM	10914	O	GLN	1624	34.966	-20.384	13.757	1.00	15.85
ATOM	10915	N	MET	1625	35.266	-18.334	14.632	1.00	16.26
ATOM	10916	CA	MET	1625	34.249	-18.528	15.664	1.00	14.73
ATOM	10917	CB	MET	1625	34.398	-17.466	16.758	1.00	15.61
ATOM	10918	CG	MET	1625	35.637	-17.671	17.623	1.00	18.12
ATOM	10919	SD	MET	1625	35.862	-16.357	18.837	1.00	20.56
ATOM	10920	CE	MET	1625	34.733	-16.876	20.128	1.00	24.48
ATOM	10921	C	MET	1625	32.832	-18.534	15.104	1.00	15.23
ATOM	10922	O	MET	1625	31.976	-19.288	15.571	1.00	15.05
ATOM	10923	N	LEU	1626	32.572	-17.702	14.101	1.00	16.96
ATOM	10924	CA	LEU	1626	31.240	-17.694	13.504	1.00	15.20
ATOM	10925	CB	LEU	1626	31.139	-16.617	12.416	1.00	15.28
ATOM	10926	CG	LEU	1626	30.816	-15.209	12.916	1.00	12.23
ATOM	10927	CD1	LEU	1626	30.993	-14.196	11.790	1.00	12.86
ATOM	10928	CD2	LEU	1626	29.398	-15.188	13.455	1.00	11.50
ATOM	10929	C	LEU	1626	30.947	-19.065	12.900	1.00	16.67
ATOM	10930	O	LEU	1626	29.905	-19.679	13.161	1.00	16.01
ATOM	10931	N	THR	1627	31.887	-19.548	12.098	1.00	16.42
ATOM	10932	CA	THR	1627	31.743	-20.833	11.423	1.00	19.44
ATOM	10933	CB	THR	1627	33.000	-21.152	10.592	1.00	20.87
ATOM	10934	OG1	THR	1627	33.259	-20.061	9.698	1.00	22.73
ATOM	10935	CG2	THR	1627	32.790	-22.424	9.770	1.00	26.46
ATOM	10936	C	THR	1627	31.481	-21.983	12.382	1.00	18.98
ATOM	10937	O	THR	1627	30.573	-22.782	12.168	1.00	20.35
ATOM	10938	N	GLU	1628	32.267	-22.072	13.446	1.00	20.15
ATOM	10939	CA	GLU	1628	32.053	-23.160	14.378	1.00	21.96
ATOM	10940	CB	GLU	1628	33.257	-23.296	15.313	1.00	25.32
ATOM	10941	CG	GLU	1628	33.231	-22.418	16.525	1.00	28.20
ATOM	10942	CD	GLU	1628	34.458	-22.615	17.394	1.00	27.97
ATOM	10943	OE1	GLU	1628	34.989	-23.748	17.440	1.00	27.80
ATOM	10944	OE2	GLU	1628	34.884	-21.638	18.039	1.00	28.14
ATOM	10945	C	GLU	1628	30.737	-22.990	15.155	1.00	21.32
ATOM	10946	O	GLU	1628	30.278	-23.924	15.807	1.00	21.40
ATOM	10947	N	ARG	1629	30.127	-21.806	15.073	1.00	18.90
ATOM	10948	CA	ARG	1629	28.850	-21.555	15.739	1.00	18.94
ATOM	10949	CB	ARG	1629	28.877	-20.193	16.455	1.00	19.15
ATOM	10950	CG	ARG	1629	29.636	-20.242	17.778	1.00	15.98
ATOM	10951	CD	ARG	1629	30.159	-18.882	18.246	1.00	12.70
ATOM	10952	NE	ARG	1629	30.954	-19.047	19.460	1.00	13.17
ATOM	10953	CZ	ARG	1629	32.154	-19.616	19.498	1.00	12.49
ATOM	10954	NH1	ARG	1629	32.719	-20.068	18.382	1.00	14.22
ATOM	10955	NH2	ARG	1629	32.778	-19.774	20.658	1.00	15.37
ATOM	10956	C	ARG	1629	27.659	-21.633	14.768	1.00	19.42
ATOM	10957	O	ARG	1629	26.610	-21.029	15.006	1.00	21.03
ATOM	10958	N	ALA	1630	27.838	-22.373	13.671	1.00	19.16
ATOM	10959	CA	ALA	1630	26.792	-22.591	12.663	1.00	17.42
ATOM	10960	CB	ALA	1630	25.493	-23.018	13.346	1.00	15.89
ATOM	10961	C	ALA	1630	26.503	-21.444	11.698	1.00	16.92
ATOM	10962	O	ALA	1630	25.460	-21.433	11.052	1.00	15.55

ATOM	10963	N	VAL	1631	27.412	-20.484	11.590	1.00	16.60
ATOM	10964	CA	VAL	1631	27.194	-19.369	10.685	1.00	15.88
ATOM	10965	CB	VAL	1631	27.282	-18.019	11.436	1.00	17.04
ATOM	10966	CG1	VAL	1631	26.996	-16.863	10.477	1.00	15.90
ATOM	10967	CG2	VAL	1631	26.280	-17.994	12.590	1.00	18.38
ATOM	10968	C	VAL	1631	28.200	-19.357	9.534	1.00	15.71
ATOM	10969	O	VAL	1631	29.375	-19.046	9.728	1.00	17.57
ATOM	10970	N	PRO	1632	27.760	-19.725	8.318	1.00	16.10
ATOM	10971	CD	PRO	1632	26.468	-20.292	7.901	1.00	14.50
ATOM	10972	CA	PRO	1632	28.710	-19.706	7.200	1.00	15.24
ATOM	10973	CB	PRO	1632	27.961	-20.438	6.083	1.00	15.98
ATOM	10974	CG	PRO	1632	26.552	-20.188	6.393	1.00	20.78
ATOM	10975	C	PRO	1632	29.025	-18.255	6.857	1.00	16.57
ATOM	10976	O	PRO	1632	28.156	-17.380	6.933	1.00	15.01
ATOM	10977	N	VAL	1633	30.269	-18.003	6.478	1.00	14.68
ATOM	10978	CA	VAL	1633	30.703	-16.654	6.174	1.00	14.60
ATOM	10979	CB	VAL	1633	31.808	-16.213	7.157	1.00	16.39
ATOM	10980	CG1	VAL	1633	32.210	-14.773	6.874	1.00	16.35
ATOM	10981	CG2	VAL	1633	31.320	-16.371	8.593	1.00	15.41
ATOM	10982	C	VAL	1633	31.237	-16.462	4.770	1.00	14.92
ATOM	10983	O	VAL	1633	31.952	-17.311	4.234	1.00	14.86
ATOM	10984	N	CYS	1634	30.875	-15.332	4.180	1.00	13.16
ATOM	10985	CA	CYS	1634	31.352	-14.972	2.855	1.00	15.22
ATOM	10986	CB	CYS	1634	30.186	-14.545	1.955	1.00	14.14
ATOM	10987	SG	CYS	1634	30.713	-13.922	0.336	1.00	17.65
ATOM	10988	C	CYS	1634	32.277	-13.794	3.132	1.00	14.44
ATOM	10989	O	CYS	1634	31.929	-12.892	3.887	1.00	15.27
ATOM	10990	N	GLY	1635	33.471	-13.816	2.558	1.00	15.52
ATOM	10991	CA	GLY	1635	34.400	-12.723	2.779	1.00	14.14
ATOM	10992	C	GLY	1635	34.162	-11.615	1.771	1.00	15.47
ATOM	10993	O	GLY	1635	33.352	-11.776	0.866	1.00	16.16
ATOM	10994	N	HIS	1636	34.867	-10.498	1.918	1.00	16.26
ATOM	10995	CA	HIS	1636	34.709	-9.364	1.009	1.00	18.95
ATOM	10996	CB	HIS	1636	33.468	-8.553	1.413	1.00	19.60
ATOM	10997	CG	HIS	1636	33.099	-7.460	0.456	1.00	20.41
ATOM	10998	CD2	HIS	1636	33.752	-6.934	-0.607	1.00	20.13
ATOM	10999	ND1	HIS	1636	31.917	-6.757	0.561	1.00	20.81
ATOM	11000	CE1	HIS	1636	31.858	-5.847	-0.393	1.00	20.55
ATOM	11001	NE2	HIS	1636	32.960	-5.933	-1.116	1.00	20.46
ATOM	11002	C	HIS	1636	35.959	-8.491	1.073	1.00	21.06
ATOM	11003	O	HIS	1636	36.171	-7.769	2.050	1.00	23.03
ATOM	11004	N	LEU	1637	36.783	-8.571	0.030	1.00	22.97
ATOM	11005	CA	LEU	1637	38.028	-7.804	-0.050	1.00	24.89
ATOM	11006	CB	LEU	1637	39.227	-8.755	-0.153	1.00	24.90
ATOM	11007	CG	LEU	1637	39.479	-9.659	1.057	1.00	26.13
ATOM	11008	CD1	LEU	1637	40.618	-10.621	0.773	1.00	24.93
ATOM	11009	CD2	LEU	1637	39.804	-8.798	2.267	1.00	26.07
ATOM	11010	C	LEU	1637	38.026	-6.854	-1.243	1.00	26.65
ATOM	11011	O	LEU	1637	37.199	-6.978	-2.147	1.00	24.18
ATOM	11012	N	GLY	1638	38.962	-5.909	-1.234	1.00	28.25
ATOM	11013	CA	GLY	1638	39.063	-4.941	-2.309	1.00	28.56
ATOM	11014	C	GLY	1638	38.402	-3.634	-1.928	1.00	29.01
ATOM	11015	O	GLY	1638	38.664	-3.081	-0.858	1.00	29.30
ATOM	11016	N	LEU	1639	37.537	-3.141	-2.805	1.00	28.17
ATOM	11017	CA	LEU	1639	36.824	-1.898	-2.566	1.00	27.72
ATOM	11018	CB	LEU	1639	36.311	-1.348	-3.899	1.00	29.18
ATOM	11019	CG	LEU	1639	36.026	0.153	-3.987	1.00	30.77
ATOM	11020	CD1	LEU	1639	35.697	0.527	-5.427	1.00	31.76
ATOM	11021	CD2	LEU	1639	34.890	0.522	-3.066	1.00	30.98
ATOM	11022	C	LEU	1639	35.657	-2.190	-1.620	1.00	28.43
ATOM	11023	O	LEU	1639	34.575	-2.581	-2.063	1.00	26.50
ATOM	11024	N	THR	1640	35.890	-2.013	-0.320	1.00	28.20
ATOM	11025	CA	THR	1640	34.866	-2.259	0.698	1.00	28.91
ATOM	11026	CB	THR	1640	35.482	-2.866	1.970	1.00	29.17
ATOM	11027	OG1	THR	1640	36.517	-2.006	2.462	1.00	30.62
ATOM	11028	CG2	THR	1640	36.068	-4.236	1.670	1.00	30.17
ATOM	11029	C	THR	1640	34.171	-0.951	1.057	1.00	28.17
ATOM	11030	O	THR	1640	34.667	-0.177	1.874	1.00	29.15
ATOM	11031	N	PRO	1641	32.991	-0.706	0.463	1.00	27.49
ATOM	11032	CD	PRO	1641	32.251	-1.695	-0.339	1.00	27.96
ATOM	11033	CA	PRO	1641	32.189	0.502	0.674	1.00	26.18
ATOM	11034	CB	PRO	1641	30.897	0.202	-0.092	1.00	26.35
ATOM	11035	CG	PRO	1641	30.832	-1.290	-0.098	1.00	29.35
ATOM	11036	C	PRO	1641	31.952	0.977	2.104	1.00	25.02
ATOM	11037	O	PRO	1641	31.763	2.174	2.332	1.00	24.64
ATOM	11038	N	GLN	1642	31.968	0.064	3.070	1.00	23.18
ATOM	11039	CA	GLN	1642	31.768	0.475	4.459	1.00	23.68



ATOM	11040	CB	GLN	1642	31.661	-0.751	5.369	1.00	24.34
ATOM	11041	CG	GLN	1642	30.249	-1.307	5.471	1.00	22.71
ATOM	11042	CD	GLN	1642	30.192	-2.633	6.204	1.00	25.04
ATOM	11043	OE1	GLN	1642	31.017	-2.910	7.075	1.00	23.03
ATOM	11044	NE2	GLN	1642	29.204	-3.456	5.865	1.00	23.95
ATOM	11045	C	GLN	1642	32.922	1.367	4.911	1.00	24.23
ATOM	11046	O	GLN	1642	32.781	2.160	5.842	1.00	24.32
ATOM	11047	N	SER	1643	34.061	1.235	4.237	1.00	23.66
ATOM	11048	CA	SER	1643	35.246	2.028	4.559	1.00	24.17
ATOM	11049	CB	SER	1643	36.478	1.126	4.596	1.00	23.24
ATOM	11050	OG	SER	1643	36.342	0.116	5.570	1.00	21.44
ATOM	11051	C	SER	1643	35.474	3.157	3.556	1.00	25.48
ATOM	11052	O	SER	1643	36.602	3.618	3.368	1.00	24.46
ATOM	11053	N	VAL	1644	34.400	3.598	2.908	1.00	26.06
ATOM	11054	CA	VAL	1644	34.502	4.671	1.924	1.00	26.14
ATOM	11055	CB	VAL	1644	33.109	5.080	1.402	1.00	25.49
ATOM	11056	CG1	VAL	1644	32.258	5.623	2.541	1.00	26.03
ATOM	11057	CG2	VAL	1644	33.250	6.110	0.293	1.00	25.29
ATOM	11058	C	VAL	1644	35.209	5.905	2.501	1.00	27.56
ATOM	11059	O	VAL	1644	36.063	6.500	1.842	1.00	27.45
ATOM	11060	N	ASN	1645	34.866	6.282	3.732	1.00	27.89
ATOM	11061	CA	ASN	1645	35.480	7.452	4.359	1.00	28.29
ATOM	11062	CB	ASN	1645	34.779	7.776	5.682	1.00	27.21
ATOM	11063	CG	ASN	1645	33.331	8.190	5.486	1.00	25.74
ATOM	11064	OD1	ASN	1645	33.045	9.268	4.967	1.00	22.31
ATOM	11065	ND2	ASN	1645	32.408	7.321	5.888	1.00	25.99
ATOM	11066	C	ASN	1645	36.971	7.241	4.599	1.00	29.33
ATOM	11067	O	ASN	1645	37.735	8.205	4.676	1.00	29.64
ATOM	11068	N	ILE	1646	37.373	5.978	4.715	1.00	30.28
ATOM	11069	CA	ILE	1646	38.773	5.626	4.931	1.00	31.32
ATOM	11070	CB	ILE	1646	38.929	4.153	5.396	1.00	31.95
ATOM	11071	CG2	ILE	1646	40.399	3.752	5.377	1.00	31.20
ATOM	11072	CG1	ILE	1646	38.355	3.977	6.806	1.00	31.77
ATOM	11073	CD1	ILE	1646	39.071	4.789	7.862	1.00	31.01
ATOM	11074	C	ILE	1646	39.562	5.809	3.636	1.00	33.51
ATOM	11075	O	ILE	1646	40.655	6.377	3.644	1.00	34.28
ATOM	11076	N	PHE	1647	39.006	5.324	2.526	1.00	34.55
ATOM	11077	CA	PHE	1647	39.664	5.439	1.225	1.00	35.75
ATOM	11078	CB	PHE	1647	39.083	4.429	0.227	1.00	36.28
ATOM	11079	CG	PHE	1647	39.051	3.014	0.734	1.00	37.21
ATOM	11080	CD1	PHE	1647	40.183	2.435	1.300	1.00	37.15
ATOM	11081	CD2	PHE	1647	37.885	2.257	0.638	1.00	36.77
ATOM	11082	CE1	PHE	1647	40.154	1.120	1.763	1.00	38.58
ATOM	11083	CE2	PHE	1647	37.845	0.943	1.096	1.00	36.69
ATOM	11084	CZ	PHE	1647	38.981	0.373	1.661	1.00	38.01
ATOM	11085	C	PHE	1647	39.512	6.840	0.643	1.00	36.39
ATOM	11086	O	PHE	1647	40.280	7.243	-0.233	1.00	36.05
ATOM	11087	N	GLY	1648	38.518	7.577	1.130	1.00	36.62
ATOM	11088	CA	GLY	1648	38.279	8.919	0.630	1.00	38.30
ATOM	11089	C	GLY	1648	37.421	8.878	-0.622	1.00	40.02
ATOM	11090	O	GLY	1648	37.406	9.822	-1.413	1.00	40.07
ATOM	11091	N	GLY	1649	36.703	7.773	-0.796	1.00	40.99
ATOM	11092	CA	GLY	1649	35.846	7.609	-1.956	1.00	42.04
ATOM	11093	C	GLY	1649	35.898	6.184	-2.477	1.00	42.47
ATOM	11094	O	GLY	1649	36.534	5.324	-1.876	1.00	41.84
ATOM	11095	N	TYR	1650	35.229	5.927	-3.596	1.00	44.57
ATOM	11096	CA	TYR	1650	35.224	4.592	-4.178	1.00	45.61
ATOM	11097	CB	TYR	1650	33.839	4.258	-4.735	1.00	46.67
ATOM	11098	CG	TYR	1650	32.731	4.386	-3.713	1.00	48.02
ATOM	11099	CD1	TYR	1650	32.142	5.623	-3.448	1.00	47.87
ATOM	11100	CE1	TYR	1650	31.142	5.753	-2.487	1.00	48.46
ATOM	11101	CD2	TYR	1650	32.291	3.275	-2.988	1.00	48.35
ATOM	11102	CE2	TYR	1650	31.291	3.394	-2.021	1.00	48.79
ATOM	11103	CZ	TYR	1650	30.722	4.637	-1.777	1.00	48.77
ATOM	11104	OH	TYR	1650	29.735	4.767	-0.827	1.00	48.30
ATOM	11105	C	TYR	1650	36.272	4.498	-5.280	1.00	46.09
ATOM	11106	O	TYR	1650	35.975	4.697	-6.458	1.00	45.93
ATOM	11107	N	LYS	1651	37.503	4.195	-4.881	1.00	46.34
ATOM	11108	CA	LYS	1651	38.614	4.077	-5.815	1.00	46.77
ATOM	11109	CB	LYS	1651	39.805	4.890	-5.306	1.00	47.81
ATOM	11110	CG	LYS	1651	39.467	6.325	-4.935	1.00	49.04
ATOM	11111	CD	LYS	1651	40.686	7.053	-4.385	1.00	50.24
ATOM	11112	CE	LYS	1651	40.343	8.473	-3.962	1.00	51.45
ATOM	11113	NZ	LYS	1651	41.543	9.208	-3.468	1.00	53.01
ATOM	11114	C	LYS	1651	39.026	2.618	-5.982	1.00	46.53
ATOM	11115	O	LYS	1651	38.815	1.797	-5.087	1.00	46.02
ATOM	11116	N	VAL	1652	39.614	2.300	-7.131	1.00	46.03

ATOM	11117	CA	VAL	1652	40.063	0.941	-7.409	1.00	45.48
ATOM	11118	CB	VAL	1652	40.715	0.838	-8.803	1.00	45.22
ATOM	11119	CG1	VAL	1652	41.216	-0.577	-9.039	1.00	45.09
ATOM	11120	CG2	VAL	1652	39.708	1.228	-9.874	1.00	44.78
ATOM	11121	C	VAL	1652	41.080	0.510	-6.360	1.00	45.62
ATOM	11122	O	VAL	1652	41.910	1.307	-5.921	1.00	44.90
ATOM	11123	N	GLN	1653	41.012	-0.755	-5.963	1.00	45.29
ATOM	11124	CA	GLN	1653	41.917	-1.286	-4.955	1.00	45.81
ATOM	11125	CB	GLN	1653	41.108	-1.795	-3.758	1.00	46.31
ATOM	11126	CG	GLN	1653	41.733	-1.510	-2.405	1.00	47.72
ATOM	11127	CD	GLN	1653	41.812	-0.025	-2.097	1.00	47.56
ATOM	11128	OE1	GLN	1653	40.805	0.683	-2.129	1.00	47.95
ATOM	11129	NE2	GLN	1653	43.011	0.451	-1.790	1.00	49.46
ATOM	11130	C	GLN	1653	42.745	-2.422	-5.549	1.00	45.65
ATOM	11131	O	GLN	1653	42.340	-3.046	-6.529	1.00	45.37
ATOM	11132	N	GLY	1654	43.907	-2.686	-4.957	1.00	45.93
ATOM	11133	CA	GLY	1654	44.758	-3.753	-5.456	1.00	46.97
ATOM	11134	C	GLY	1654	45.912	-3.277	-6.324	1.00	47.53
ATOM	11135	O	GLY	1654	46.917	-3.974	-6.457	1.00	46.50
ATOM	11136	N	ARG	1655	45.763	-2.096	-6.920	1.00	48.61
ATOM	11137	CA	ARG	1655	46.793	-1.511	-7.778	1.00	49.79
ATOM	11138	CB	ARG	1655	46.421	-0.067	-8.141	1.00	50.69
ATOM	11139	CG	ARG	1655	45.152	0.090	-8.980	1.00	51.67
ATOM	11140	CD	ARG	1655	45.449	0.007	-10.469	1.00	52.58
ATOM	11141	NE	ARG	1655	44.245	0.096	-11.297	1.00	52.70
ATOM	11142	CZ	ARG	1655	43.421	1.141	-11.329	1.00	52.20
ATOM	11143	NH1	ARG	1655	43.658	2.205	-10.574	1.00	52.02
ATOM	11144	NH2	ARG	1655	42.360	1.124	-12.125	1.00	51.43
ATOM	11145	C	ARG	1655	48.146	-1.512	-7.071	1.00	50.62
ATOM	11146	O	ARG	1655	48.328	-0.826	-6.065	1.00	50.32
ATOM	11147	N	GLY	1656	49.093	-2.282	-7.597	1.00	51.16
ATOM	11148	CA	GLY	1656	50.410	-2.339	-6.989	1.00	52.70
ATOM	11149	C	GLY	1656	50.786	-3.730	-6.522	1.00	53.14
ATOM	11150	O	GLY	1656	49.959	-4.640	-6.528	1.00	53.30
ATOM	11151	N	ASP	1657	52.041	-3.898	-6.119	1.00	53.65
ATOM	11152	CA	ASP	1657	52.523	-5.190	-5.649	1.00	53.80
ATOM	11153	CB	ASP	1657	54.034	-5.308	-5.870	1.00	55.47
ATOM	11154	CG	ASP	1657	54.406	-5.377	-7.340	1.00	56.62
ATOM	11155	OD1	ASP	1657	53.962	-6.327	-8.022	1.00	56.60
ATOM	11156	OD2	ASP	1657	55.144	-4.484	-7.812	1.00	57.58
ATOM	11157	C	ASP	1657	52.204	-5.392	-4.173	1.00	53.09
ATOM	11158	O	ASP	1657	51.620	-6.404	-3.793	1.00	52.84
ATOM	11159	N	GLU	1658	52.586	-4.424	-3.347	1.00	52.53
ATOM	11160	CA	GLU	1658	52.340	-4.507	-1.912	1.00	52.30
ATOM	11161	CB	GLU	1658	52.820	-3.232	-1.214	1.00	53.11
ATOM	11162	CG	GLU	1658	52.733	-3.294	0.306	1.00	54.62
ATOM	11163	CD	GLU	1658	53.180	-2.007	0.973	1.00	55.75
ATOM	11164	OE1	GLU	1658	54.319	-1.562	0.708	1.00	56.22
ATOM	11165	OE2	GLU	1658	52.393	-1.443	1.768	1.00	55.93
ATOM	11166	C	GLU	1658	50.859	-4.722	-1.616	1.00	51.14
ATOM	11167	O	GLU	1658	50.491	-5.640	-0.882	1.00	50.90
ATOM	11168	N	ALA	1659	50.015	-3.870	-2.190	1.00	49.84
ATOM	11169	CA	ALA	1659	48.573	-3.969	-1.990	1.00	47.95
ATOM	11170	CB	ALA	1659	47.869	-2.804	-2.675	1.00	48.45
ATOM	11171	C	ALA	1659	48.048	-5.293	-2.535	1.00	46.33
ATOM	11172	O	ALA	1659	47.280	-5.987	-1.869	1.00	46.58
ATOM	11173	N	GLY	1660	48.470	-5.635	-3.748	1.00	44.15
ATOM	11174	CA	GLY	1660	48.035	-6.874	-4.363	1.00	41.45
ATOM	11175	C	GLY	1660	48.372	-8.095	-3.529	1.00	40.33
ATOM	11176	O	GLY	1660	47.507	-8.925	-3.260	1.00	38.67
ATOM	11177	N	ASP	1661	49.630	-8.209	-3.114	1.00	39.99
ATOM	11178	CA	ASP	1661	50.055	-9.348	-2.312	1.00	39.26
ATOM	11179	CB	ASP	1661	51.563	-9.293	-2.058	1.00	42.10
ATOM	11180	CG	ASP	1661	52.368	-9.258	-3.340	1.00	42.83
ATOM	11181	OD1	ASP	1661	52.150	-10.129	-4.208	1.00	42.87
ATOM	11182	OD2	ASP	1661	53.223	-8.360	-3.477	1.00	45.93
ATOM	11183	C	ASP	1661	49.317	-9.386	-0.982	1.00	38.30
ATOM	11184	O	ASP	1661	49.029	-10.460	-0.455	1.00	36.90
ATOM	11185	N	GLN	1662	49.014	-8.211	-0.442	1.00	37.31
ATOM	11186	CA	GLN	1662	48.306	-8.124	0.829	1.00	37.91
ATOM	11187	CB	GLN	1662	48.299	-6.678	1.336	1.00	39.32
ATOM	11188	CG	GLN	1662	47.557	-6.500	2.647	1.00	42.13
ATOM	11189	CD	GLN	1662	47.934	-7.555	3.671	1.00	43.63
ATOM	11190	OE1	GLN	1662	49.108	-7.733	3.993	1.00	44.57
ATOM	11191	NE2	GLN	1662	46.937	-8.261	4.186	1.00	45.08
ATOM	11192	C	GLN	1662	46.872	-8.631	0.694	1.00	36.59
ATOM	11193	O	GLN	1662	46.316	-9.209	1.632	1.00	35.25

ATOM	11194	N	LEU	1663	46.278	-8.408	-0.474	1.00	36.15
ATOM	11195	CA	LEU	1663	44.911	-8.851	-0.730	1.00	35.64
ATOM	11196	CB	LEU	1663	44.359	-8.190	-1.999	1.00	37.34
ATOM	11197	CG	LEU	1663	44.061	-6.686	-1.919	1.00	39.82
ATOM	11198	CD1	LEU	1663	43.626	-6.168	-3.283	1.00	40.42
ATOM	11199	CD2	LEU	1663	42.971	-6.434	-0.884	1.00	40.78
ATOM	11200	C	LEU	1663	44.880	-10.367	-0.875	1.00	33.87
ATOM	11201	O	LEU	1663	43.997	-11.030	-0.333	1.00	33.09
ATOM	11202	N	LEU	1664	45.850	-10.912	-1.604	1.00	31.69
ATOM	11203	CA	LEU	1664	45.933	-12.353	-1.808	1.00	30.95
ATOM	11204	CB	LEU	1664	47.102	-12.690	-2.736	1.00	34.05
ATOM	11205	CG	LEU	1664	46.949	-13.905	-3.655	1.00	35.86
ATOM	11206	CD1	LEU	1664	48.242	-14.089	-4.444	1.00	37.45
ATOM	11207	CD2	LEU	1664	46.639	-15.155	-2.853	1.00	36.48
ATOM	11208	C	LEU	1664	46.141	-13.026	-0.454	1.00	29.09
ATOM	11209	O	LEU	1664	45.610	-14.107	-0.190	1.00	28.40
ATOM	11210	N	SER	1665	46.921	-12.375	0.403	1.00	26.84
ATOM	11211	CA	SER	1665	47.192	-12.897	1.733	1.00	25.84
ATOM	11212	CB	SER	1665	48.222	-12.017	2.447	1.00	26.63
ATOM	11213	OG	SER	1665	48.565	-12.558	3.713	1.00	28.52
ATOM	11214	C	SER	1665	45.892	-12.931	2.533	1.00	24.57
ATOM	11215	O	SER	1665	45.552	-13.949	3.132	1.00	23.68
ATOM	11216	N	ASP	1666	45.166	-11.815	2.532	1.00	24.47
ATOM	11217	CA	ASP	1666	43.901	-11.738	3.258	1.00	25.90
ATOM	11218	CB	ASP	1666	43.296	-10.328	3.170	1.00	25.16
ATOM	11219	CG	ASP	1666	44.089	-9.296	3.957	1.00	27.13
ATOM	11220	OD1	ASP	1666	44.664	-9.652	5.009	1.00	26.45
ATOM	11221	OD2	ASP	1666	44.130	-8.117	3.534	1.00	27.04
ATOM	11222	C	ASP	1666	42.913	-12.759	2.714	1.00	25.78
ATOM	11223	O	ASP	1666	42.168	-13.382	3.473	1.00	27.18
ATOM	11224	N	ALA	1667	42.910	-12.936	1.397	1.00	25.37
ATOM	11225	CA	ALA	1667	42.013	-13.893	0.765	1.00	24.67
ATOM	11226	CB	ALA	1667	42.187	-13.849	-0.754	1.00	24.78
ATOM	11227	C	ALA	1667	42.297	-15.294	1.287	1.00	24.19
ATOM	11228	O	ALA	1667	41.382	-16.026	1.673	1.00	22.33
ATOM	11229	N	LEU	1668	43.570	-15.673	1.303	1.00	23.07
ATOM	11230	CA	LEU	1668	43.951	-16.996	1.792	1.00	22.47
ATOM	11231	CB	LEU	1668	45.434	-17.256	1.506	1.00	23.09
ATOM	11232	CG	LEU	1668	45.767	-17.598	0.047	1.00	23.46
ATOM	11233	CD1	LEU	1668	47.259	-17.456	-0.188	1.00	24.35
ATOM	11234	CD2	LEU	1668	45.297	-19.006	-0.278	1.00	23.63
ATOM	11235	C	LEU	1668	43.676	-17.140	3.288	1.00	22.33
ATOM	11236	O	LEU	1668	43.296	-18.211	3.751	1.00	22.16
ATOM	11237	N	ALA	1669	43.877	-16.059	4.038	1.00	22.43
ATOM	11238	CA	ALA	1669	43.633	-16.083	5.479	1.00	22.18
ATOM	11239	CB	ALA	1669	44.086	-14.782	6.111	1.00	23.50
ATOM	11240	C	ALA	1669	42.153	-16.328	5.775	1.00	21.87
ATOM	11241	O	ALA	1669	41.809	-17.177	6.600	1.00	22.22
ATOM	11242	N	LEU	1670	41.284	-15.585	5.098	1.00	20.26
ATOM	11243	CA	LEU	1670	39.846	-15.730	5.288	1.00	18.56
ATOM	11244	CB	LEU	1670	39.085	-14.737	4.401	1.00	19.24
ATOM	11245	CG	LEU	1670	39.265	-13.260	4.755	1.00	18.45
ATOM	11246	CD1	LEU	1670	38.703	-12.375	3.662	1.00	19.75
ATOM	11247	CD2	LEU	1670	38.569	-12.973	6.086	1.00	19.43
ATOM	11248	C	LEU	1670	39.405	-17.146	4.962	1.00	19.70
ATOM	11249	O	LEU	1670	38.571	-17.714	5.659	1.00	18.51
ATOM	11250	N	GLU	1671	39.963	-17.720	3.901	1.00	18.99
ATOM	11251	CA	GLU	1671	39.603	-19.079	3.518	1.00	19.04
ATOM	11252	CB	GLU	1671	40.303	-19.474	2.215	1.00	19.59
ATOM	11253	CG	GLU	1671	40.072	-20.929	1.816	1.00	22.01
ATOM	11254	CD	GLU	1671	40.790	-21.305	0.530	1.00	24.31
ATOM	11255	OE1	GLU	1671	42.015	-21.096	0.458	1.00	23.91
ATOM	11256	OE2	GLU	1671	40.128	-21.804	-0.398	1.00	27.07
ATOM	11257	C	GLU	1671	39.978	-20.070	4.616	1.00	18.25
ATOM	11258	O	GLU	1671	39.164	-20.901	5.016	1.00	17.58
ATOM	11259	N	ALA	1672	41.217	-19.985	5.095	1.00	19.38
ATOM	11260	CA	ALA	1672	41.688	-20.879	6.148	1.00	20.20
ATOM	11261	CB	ALA	1672	43.164	-20.623	6.434	1.00	21.78
ATOM	11262	C	ALA	1672	40.870	-20.710	7.429	1.00	21.55
ATOM	11263	O	ALA	1672	40.684	-21.664	8.192	1.00	21.04
ATOM	11264	N	ALA	1673	40.382	-19.492	7.654	1.00	19.63
ATOM	11265	CA	ALA	1673	39.575	-19.175	8.831	1.00	19.73
ATOM	11266	CB	ALA	1673	39.398	-17.665	8.952	1.00	18.51
ATOM	11267	C	ALA	1673	38.212	-19.857	8.782	1.00	20.99
ATOM	11268	O	ALA	1673	37.545	-20.010	9.807	1.00	19.73
ATOM	11269	N	GLY	1674	37.786	-20.248	7.584	1.00	20.06
ATOM	11270	CA	GLY	1674	36.510	-20.928	7.453	1.00	19.89

ATOM	11271	C	GLY	1674	35.552	-20.324	6.444	1.00	18.97
ATOM	11272	O	GLY	1674	34.468	-20.848	6.245	1.00	18.23
ATOM	11273	N	ALA	1675	35.936	-19.217	5.818	1.00	19.69
ATOM	11274	CA	ALA	1675	35.077	-18.589	4.822	1.00	20.14
ATOM	11275	CB	ALA	1675	35.736	-17.312	4.292	1.00	19.92
ATOM	11276	C	ALA	1675	34.830	-19.582	3.680	1.00	21.06
ATOM	11277	O	ALA	1675	35.772	-20.194	3.175	1.00	22.86
ATOM	11278	N	GLN	1676	33.565	-19.741	3.285	1.00	20.43
ATOM	11279	CA	GLN	1676	33.194	-20.659	2.208	1.00	20.46
ATOM	11280	CB	GLN	1676	31.923	-21.426	2.578	1.00	21.87
ATOM	11281	CG	GLN	1676	32.049	-22.250	3.854	1.00	23.52
ATOM	11282	CD	GLN	1676	30.805	-23.067	4.165	1.00	26.30
ATOM	11283	OE1	GLN	1676	30.470	-24.007	3.449	1.00	30.08
ATOM	11284	NE2	GLN	1676	30.116	-22.707	5.240	1.00	28.15
ATOM	11285	C	GLN	1676	32.982	-19.938	0.879	1.00	19.59
ATOM	11286	O	GLN	1676	32.822	-20.572	-0.163	1.00	20.05
ATOM	11287	N	LEU	1677	32.973	-18.612	0.928	1.00	20.26
ATOM	11288	CA	LEU	1677	32.797	-17.792	-0.257	1.00	20.79
ATOM	11289	CB	LEU	1677	31.314	-17.476	-0.467	1.00	22.99
ATOM	11290	CG	LEU	1677	30.499	-18.528	-1.225	1.00	25.39
ATOM	11291	CD1	LEU	1677	29.007	-18.325	-0.979	1.00	26.62
ATOM	11292	CD2	LEU	1677	30.821	-18.426	-2.711	1.00	25.79
ATOM	11293	C	LEU	1677	33.570	-16.496	-0.092	1.00	21.45
ATOM	11294	O	LEU	1677	33.826	-16.058	1.030	1.00	20.88
ATOM	11295	N	LEU	1678	33.944	-15.881	-1.210	1.00	17.59
ATOM	11296	CA	LEU	1678	34.675	-14.617	-1.168	1.00	20.03
ATOM	11297	CB	LEU	1678	36.189	-14.847	-1.284	1.00	19.25
ATOM	11298	CG	LEU	1678	37.026	-13.574	-1.442	1.00	21.72
ATOM	11299	CD1	LEU	1678	36.892	-12.699	-0.207	1.00	19.17
ATOM	11300	CD2	LEU	1678	38.487	-13.937	-1.671	1.00	20.95
ATOM	11301	C	LEU	1678	34.238	-13.695	-2.288	1.00	19.21
ATOM	11302	O	LEU	1678	34.090	-14.119	-3.432	1.00	20.80
ATOM	11303	N	VAL	1679	34.026	-12.433	-1.947	1.00	19.50
ATOM	11304	CA	VAL	1679	33.639	-11.435	-2.929	1.00	20.39
ATOM	11305	CB	VAL	1679	32.395	-10.630	-2.476	1.00	18.97
ATOM	11306	CG1	VAL	1679	32.202	-9.423	-3.389	1.00	19.05
ATOM	11307	CG2	VAL	1679	31.145	-11.517	-2.518	1.00	17.14
ATOM	11308	C	VAL	1679	34.799	-10.462	-3.121	1.00	22.00
ATOM	11309	O	VAL	1679	35.351	-9.935	-2.145	1.00	20.40
ATOM	11310	N	LEU	1680	35.174	-10.249	-4.380	1.00	22.33
ATOM	11311	CA	LEU	1680	36.250	-9.325	-4.745	1.00	24.09
ATOM	11312	CB	LEU	1680	37.267	-10.011	-5.666	1.00	25.86
ATOM	11313	CG	LEU	1680	38.561	-10.510	-5.030	1.00	28.75
ATOM	11314	CD1	LEU	1680	39.434	-11.167	-6.092	1.00	28.15
ATOM	11315	CD2	LEU	1680	39.295	-9.338	-4.388	1.00	28.06
ATOM	11316	C	LEU	1680	35.631	-8.147	-5.483	1.00	23.79
ATOM	11317	O	LEU	1680	34.984	-8.338	-6.508	1.00	26.35
ATOM	11318	N	GLU	1681	35.829	-6.934	-4.976	1.00	23.88
ATOM	11319	CA	GLU	1681	35.252	-5.753	-5.613	1.00	26.33
ATOM	11320	CB	GLU	1681	34.293	-5.065	-4.636	1.00	23.82
ATOM	11321	CG	GLU	1681	33.793	-3.695	-5.074	1.00	25.12
ATOM	11322	CD	GLU	1681	32.590	-3.233	-4.264	1.00	25.80
ATOM	11323	OE1	GLU	1681	32.420	-3.717	-3.125	1.00	26.14
ATOM	11324	OE2	GLU	1681	31.820	-2.386	-4.760	1.00	27.76
ATOM	11325	C	GLU	1681	36.272	-4.742	-6.137	1.00	27.77
ATOM	11326	O	GLU	1681	37.181	-4.327	-5.417	1.00	28.68
ATOM	11327	N	CYS	1682	36.107	-4.354	-7.399	1.00	29.09
ATOM	11328	CA	CYS	1682	36.982	-3.378	-8.045	1.00	30.51
ATOM	11329	CB	CYS	1682	36.562	-1.968	-7.639	1.00	30.60
ATOM	11330	SG	CYS	1682	34.887	-1.555	-8.174	1.00	32.38
ATOM	11331	C	CYS	1682	38.463	-3.582	-7.760	1.00	31.19
ATOM	11332	O	CYS	1682	39.075	-2.841	-6.984	1.00	32.08
ATOM	11333	N	VAL	1683	39.029	-4.593	-8.405	1.00	31.35
ATOM	11334	CA	VAL	1683	40.436	-4.922	-8.248	1.00	32.78
ATOM	11335	CB	VAL	1683	40.600	-6.146	-7.312	1.00	33.52
ATOM	11336	CG1	VAL	1683	40.443	-7.443	-8.094	1.00	33.50
ATOM	11337	CG2	VAL	1683	41.927	-6.085	-6.596	1.00	34.74
ATOM	11338	C	VAL	1683	40.971	-5.249	-9.645	1.00	33.45
ATOM	11339	O	VAL	1683	40.218	-5.684	-10.516	1.00	33.44
ATOM	11340	N	PRO	1684	42.274	-5.024	-9.887	1.00	33.91
ATOM	11341	CD	PRO	1684	43.339	-4.567	-8.979	1.00	33.50
ATOM	11342	CA	PRO	1684	42.817	-5.330	-11.216	1.00	33.77
ATOM	11343	CB	PRO	1684	44.307	-5.011	-11.066	1.00	34.17
ATOM	11344	CG	PRO	1684	44.558	-5.205	-9.598	1.00	34.44
ATOM	11345	C	PRO	1684	42.557	-6.783	-11.595	1.00	33.67
ATOM	11346	O	PRO	1684	42.807	-7.693	-10.806	1.00	33.93
ATOM	11347	N	VAL	1685	42.043	-6.987	-12.802	1.00	33.35

ATOM	11348	CA	VAL	1685	41.731	-8.321	-13.301	1.00	33.55
ATOM	11349	CB	VAL	1685	41.535	-8.305	-14.827	1.00	33.86
ATOM	11350	CG1	VAL	1685	40.993	-9.650	-15.296	1.00	33.59
ATOM	11351	CG2	VAL	1685	40.601	-7.175	-15.216	1.00	32.41
ATOM	11352	C	VAL	1685	42.817	-9.343	-12.976	1.00	34.90
ATOM	11353	O	VAL	1685	42.529	-10.426	-12.463	1.00	33.21
ATOM	11354	N	GLU	1686	44.065	-8.994	-13.278	1.00	36.15
ATOM	11355	CA	GLU	1686	45.185	-9.893	-13.024	1.00	37.45
ATOM	11356	CB	GLU	1686	46.512	-9.245	-13.449	1.00	40.77
ATOM	11357	CG	GLU	1686	46.516	-7.719	-13.470	1.00	45.35
ATOM	11358	CD	GLU	1686	45.716	-7.144	-14.631	1.00	47.26
ATOM	11359	OE1	GLU	1686	45.988	-7.521	-15.793	1.00	48.37
ATOM	11360	OE2	GLU	1686	44.820	-6.310	-14.383	1.00	49.33
ATOM	11361	C	GLU	1686	45.259	-10.326	-11.565	1.00	35.59
ATOM	11362	O	GLU	1686	45.636	-11.460	-11.269	1.00	35.39
ATOM	11363	N	LEU	1687	44.896	-9.427	-10.656	1.00	34.93
ATOM	11364	CA	LEU	1687	44.926	-9.743	-9.234	1.00	34.56
ATOM	11365	CB	LEU	1687	44.773	-8.473	-8.400	1.00	36.48
ATOM	11366	CG	LEU	1687	45.413	-8.477	-7.007	1.00	38.23
ATOM	11367	CD1	LEU	1687	45.086	-7.168	-6.311	1.00	39.44
ATOM	11368	CD2	LEU	1687	44.909	-9.646	-6.189	1.00	40.16
ATOM	11369	C	LEU	1687	43.783	-10.706	-8.934	1.00	33.56
ATOM	11370	O	LEU	1687	43.940	-11.656	-8.166	1.00	33.33
ATOM	11371	N	ALA	1688	42.633	-10.455	-9.552	1.00	33.02
ATOM	11372	CA	ALA	1688	41.462	-11.303	-9.374	1.00	32.03
ATOM	11373	CB	ALA	1688	40.285	-10.748	-10.174	1.00	31.82
ATOM	11374	C	ALA	1688	41.798	-12.713	-9.841	1.00	31.88
ATOM	11375	O	ALA	1688	41.306	-13.698	-9.288	1.00	30.38
ATOM	11376	N	LYS	1689	42.642	-12.799	-10.865	1.00	32.10
ATOM	11377	CA	LYS	1689	43.065	-14.080	-11.420	1.00	32.59
ATOM	11378	CB	LYS	1689	43.921	-13.852	-12.667	1.00	35.33
ATOM	11379	CG	LYS	1689	43.301	-12.915	-13.688	1.00	39.20
ATOM	11380	CD	LYS	1689	44.230	-12.702	-14.875	1.00	43.71
ATOM	11381	CE	LYS	1689	43.639	-11.725	-15.875	1.00	44.72
ATOM	11382	NZ	LYS	1689	44.550	-11.492	-17.027	1.00	46.98
ATOM	11383	C	LYS	1689	43.877	-14.854	-10.392	1.00	30.77
ATOM	11384	O	LYS	1689	43.635	-16.040	-10.158	1.00	30.60
ATOM	11385	N	ARG	1690	44.850	-14.172	-9.793	1.00	30.36
ATOM	11386	CA	ARG	1690	45.715	-14.773	-8.782	1.00	30.78
ATOM	11387	CB	ARG	1690	46.706	-13.738	-8.236	1.00	32.24
ATOM	11388	CG	ARG	1690	48.153	-13.968	-8.653	1.00	35.21
ATOM	11389	CD	ARG	1690	49.122	-13.194	-7.766	1.00	35.72
ATOM	11390	NE	ARG	1690	48.987	-11.749	-7.919	1.00	38.51
ATOM	11391	CZ	ARG	1690	49.548	-10.854	-7.110	1.00	38.81
ATOM	11392	NH1	ARG	1690	50.285	-11.253	-6.082	1.00	38.33
ATOM	11393	NH2	ARG	1690	49.374	-9.557	-7.331	1.00	38.70
ATOM	11394	C	ARG	1690	44.895	-15.329	-7.627	1.00	29.79
ATOM	11395	O	ARG	1690	45.018	-16.503	-7.271	1.00	29.49
ATOM	11396	N	ILE	1691	44.059	-14.475	-7.044	1.00	29.53
ATOM	11397	CA	ILE	1691	43.223	-14.874	-5.920	1.00	27.99
ATOM	11398	CB	ILE	1691	42.368	-13.687	-5.428	1.00	28.66
ATOM	11399	CG2	ILE	1691	41.431	-14.141	-4.310	1.00	29.07
ATOM	11400	CG1	ILE	1691	43.290	-12.569	-4.939	1.00	27.59
ATOM	11401	CD1	ILE	1691	42.571	-11.367	-4.367	1.00	30.13
ATOM	11402	C	ILE	1691	42.322	-16.053	-6.278	1.00	28.14
ATOM	11403	O	ILE	1691	42.267	-17.044	-5.551	1.00	28.03
ATOM	11404	N	THR	1692	41.635	-15.952	-7.412	1.00	27.85
ATOM	11405	CA	THR	1692	40.743	-17.016	-7.852	1.00	28.15
ATOM	11406	CB	THR	1692	40.089	-16.670	-9.207	1.00	27.92
ATOM	11407	OG1	THR	1692	39.305	-15.477	-9.070	1.00	30.45
ATOM	11408	CG2	THR	1692	39.192	-17.799	-9.672	1.00	24.79
ATOM	11409	C	THR	1692	41.468	-18.352	-7.975	1.00	28.88
ATOM	11410	O	THR	1692	40.967	-19.378	-7.523	1.00	27.96
ATOM	11411	N	GLU	1693	42.649	-18.346	-8.585	1.00	30.86
ATOM	11412	CA	GLU	1693	43.410	-19.582	-8.739	1.00	31.66
ATOM	11413	CB	GLU	1693	44.509	-19.403	-9.788	1.00	34.46
ATOM	11414	CG	GLU	1693	43.985	-19.142	-11.188	1.00	39.25
ATOM	11415	CD	GLU	1693	45.098	-18.913	-12.193	1.00	41.31
ATOM	11416	OE1	GLU	1693	45.841	-17.920	-12.046	1.00	42.03
ATOM	11417	OE2	GLU	1693	45.227	-19.728	-13.133	1.00	44.22
ATOM	11418	C	GLU	1693	44.031	-20.022	-7.417	1.00	31.18
ATOM	11419	O	GLU	1693	44.220	-21.219	-7.180	1.00	32.59
ATOM	11420	N	ALA	1694	44.339	-19.055	-6.556	1.00	29.06
ATOM	11421	CA	ALA	1694	44.954	-19.349	-5.263	1.00	28.83
ATOM	11422	CB	ALA	1694	45.568	-18.077	-4.681	1.00	28.10
ATOM	11423	C	ALA	1694	43.997	-19.975	-4.252	1.00	28.71
ATOM	11424	O	ALA	1694	44.398	-20.833	-3.463	1.00	27.81

ATOM	11425	N	LEU	1695	42.734	-19.556	-4.273	1.00	28.34
ATOM	11426	CA	LEU	1695	41.750	-20.103	-3.336	1.00	28.55
ATOM	11427	CB	LEU	1695	40.729	-19.035	-2.936	1.00	28.01
ATOM	11428	CG	LEU	1695	41.242	-17.849	-2.121	1.00	30.89
ATOM	11429	CD1	LEU	1695	40.062	-16.980	-1.700	1.00	27.57
ATOM	11430	CD2	LEU	1695	41.989	-18.348	-0.898	1.00	32.34
ATOM	11431	C	LEU	1695	41.002	-21.306	-3.889	1.00	26.44
ATOM	11432	O	LEU	1695	40.848	-21.452	-5.099	1.00	27.20
ATOM	11433	N	ALA	1696	40.541	-22.168	-2.991	1.00	24.30
ATOM	11434	CA	ALA	1696	39.790	-23.346	-3.391	1.00	23.55
ATOM	11435	CB	ALA	1696	40.026	-24.479	-2.413	1.00	21.99
ATOM	11436	C	ALA	1696	38.313	-22.983	-3.416	1.00	23.10
ATOM	11437	O	ALA	1696	37.562	-23.440	-4.279	1.00	24.16
ATOM	11438	N	ILE	1697	37.898	-22.155	-2.464	1.00	21.53
ATOM	11439	CA	ILE	1697	36.506	-21.734	-2.391	1.00	20.71
ATOM	11440	CB	ILE	1697	36.211	-20.965	-1.082	1.00	18.95
ATOM	11441	CG2	ILE	1697	36.340	-21.897	0.113	1.00	17.11
ATOM	11442	CG1	ILE	1697	37.158	-19.776	-0.955	1.00	18.41
ATOM	11443	CD1	ILE	1697	36.776	-18.806	0.147	1.00	20.97
ATOM	11444	C	ILE	1697	36.185	-20.823	-3.571	1.00	20.34
ATOM	11445	O	ILE	1697	37.073	-20.206	-4.155	1.00	20.05
ATOM	11446	N	PRO	1698	34.903	-20.739	-3.948	1.00	21.40
ATOM	11447	CD	PRO	1698	33.767	-21.568	-3.513	1.00	20.73
ATOM	11448	CA	PRO	1698	34.541	-19.878	-5.074	1.00	20.26
ATOM	11449	CB	PRO	1698	33.102	-20.302	-5.393	1.00	21.48
ATOM	11450	CG	PRO	1698	32.594	-20.847	-4.113	1.00	22.95
ATOM	11451	C	PRO	1698	34.689	-18.390	-4.769	1.00	20.91
ATOM	11452	O	PRO	1698	34.431	-17.932	-3.650	1.00	19.65
ATOM	11453	N	VAL	1699	35.138	-17.648	-5.770	1.00	18.53
ATOM	11454	CA	VAL	1699	35.337	-16.216	-5.637	1.00	19.92
ATOM	11455	CB	VAL	1699	36.802	-15.840	-5.991	1.00	20.40
ATOM	11456	CG1	VAL	1699	37.002	-14.335	-5.923	1.00	18.70
ATOM	11457	CG2	VAL	1699	37.751	-16.534	-5.028	1.00	18.50
ATOM	11458	C	VAL	1699	34.366	-15.480	-6.560	1.00	21.83
ATOM	11459	O	VAL	1699	34.374	-15.672	-7.779	1.00	22.52
ATOM	11460	N	ILE	1700	33.517	-14.648	-5.967	1.00	22.27
ATOM	11461	CA	ILE	1700	32.534	-13.886	-6.722	1.00	22.16
ATOM	11462	CB	ILE	1700	31.211	-13.759	-5.940	1.00	21.79
ATOM	11463	CG2	ILE	1700	30.243	-12.873	-6.700	1.00	22.27
ATOM	11464	CG1	ILE	1700	30.617	-15.150	-5.709	1.00	22.01
ATOM	11465	CD1	ILE	1700	29.416	-15.157	-4.789	1.00	24.61
ATOM	11466	C	ILE	1700	33.100	-12.504	-6.963	1.00	21.79
ATOM	11467	O	ILE	1700	33.537	-11.828	-6.030	1.00	21.47
ATOM	11468	N	GLY	1701	33.096	-12.079	-8.218	1.00	21.16
ATOM	11469	CA	GLY	1701	33.635	-10.773	-8.526	1.00	20.63
ATOM	11470	C	GLY	1701	32.633	-9.714	-8.929	1.00	21.51
ATOM	11471	O	GLY	1701	31.571	-10.003	-9.467	1.00	22.89
ATOM	11472	N	ILE	1702	32.990	-8.470	-8.642	1.00	24.15
ATOM	11473	CA	ILE	1702	32.184	-7.309	-8.988	1.00	25.08
ATOM	11474	CB	ILE	1702	31.275	-6.866	-7.804	1.00	25.11
ATOM	11475	CG2	ILE	1702	32.059	-6.838	-6.504	1.00	24.79
ATOM	11476	CG1	ILE	1702	30.679	-5.490	-8.083	1.00	28.41
ATOM	11477	CD1	ILE	1702	29.632	-5.485	-9.157	1.00	30.16
ATOM	11478	C	ILE	1702	33.209	-6.228	-9.321	1.00	25.61
ATOM	11479	O	ILE	1702	33.728	-5.553	-8.437	1.00	25.75
ATOM	11480	N	GLY	1703	33.515	-6.084	-10.608	1.00	27.06
ATOM	11481	CA	GLY	1703	34.501	-5.105	-11.017	1.00	24.09
ATOM	11482	C	GLY	1703	35.884	-5.717	-10.904	1.00	25.54
ATOM	11483	O	GLY	1703	36.873	-5.017	-10.680	1.00	27.11
ATOM	11484	N	ALA	1704	35.945	-7.037	-11.054	1.00	24.77
ATOM	11485	CA	ALA	1704	37.204	-7.767	-10.970	1.00	26.19
ATOM	11486	CB	ALA	1704	37.187	-8.691	-9.757	1.00	24.95
ATOM	11487	C	ALA	1704	37.454	-8.582	-12.238	1.00	26.93
ATOM	11488	O	ALA	1704	38.294	-9.482	-12.250	1.00	27.02
ATOM	11489	N	GLY	1705	36.725	-8.266	-13.303	1.00	27.42
ATOM	11490	CA	GLY	1705	36.895	-8.993	-14.545	1.00	27.32
ATOM	11491	C	GLY	1705	36.120	-10.297	-14.548	1.00	27.69
ATOM	11492	O	GLY	1705	35.490	-10.653	-13.551	1.00	28.16
ATOM	11493	N	ASN	1706	36.170	-11.017	-15.666	1.00	26.41
ATOM	11494	CA	ASN	1706	35.452	-12.279	-15.801	1.00	26.15
ATOM	11495	CB	ASN	1706	34.909	-12.423	-17.230	1.00	28.81
ATOM	11496	CG	ASN	1706	36.007	-12.410	-18.283	1.00	30.05
ATOM	11497	OD1	ASN	1706	35.750	-12.663	-19.462	1.00	32.36
ATOM	11498	ND2	ASN	1706	37.231	-12.111	-17.866	1.00	27.42
ATOM	11499	C	ASN	1706	36.306	-13.492	-15.452	1.00	27.06
ATOM	11500	O	ASN	1706	36.005	-14.609	-15.874	1.00	28.09
ATOM	11501	N	VAL	1707	37.358	-13.268	-14.669	1.00	25.49

ATOM	11502	CA	VAL	1707	38.270	-14.335	-14.258	1.00	27.59
ATOM	11503	CB	VAL	1707	39.700	-13.780	-14.047	1.00	29.11
ATOM	11504	CG1	VAL	1707	40.656	-14.914	-13.711	1.00	33.83
ATOM	11505	CG2	VAL	1707	40.169	-13.053	-15.299	1.00	30.80
ATOM	11506	C	VAL	1707	37.815	-15.016	-12.967	1.00	26.92
ATOM	11507	O	VAL	1707	38.311	-16.088	-12.612	1.00	26.60
ATOM	11508	N	THR	1708	36.878	-14.389	-12.263	1.00	24.26
ATOM	11509	CA	THR	1708	36.364	-14.948	-11.019	1.00	23.16
ATOM	11510	CB	THR	1708	35.625	-13.867	-10.202	1.00	22.08
ATOM	11511	OG1	THR	1708	34.731	-13.145	-11.059	1.00	20.76
ATOM	11512	CG2	THR	1708	36.620	-12.894	-9.592	1.00	22.51
ATOM	11513	C	THR	1708	35.427	-16.122	-11.300	1.00	23.44
ATOM	11514	O	THR	1708	34.965	-16.304	-12.427	1.00	24.03
ATOM	11515	N	ASP	1709	35.157	-16.921	-10.271	1.00	23.18
ATOM	11516	CA	ASP	1709	34.299	-18.098	-10.398	1.00	24.19
ATOM	11517	CB	ASP	1709	34.425	-18.954	-9.139	1.00	26.39
ATOM	11518	CG	ASP	1709	35.857	-19.362	-8.861	1.00	28.72
ATOM	11519	OD1	ASP	1709	36.395	-20.179	-9.636	1.00	28.85
ATOM	11520	OD2	ASP	1709	36.440	-18.858	-7.876	1.00	27.39
ATOM	11521	C	ASP	1709	32.843	-17.708	-10.608	1.00	24.34
ATOM	11522	O	ASP	1709	32.054	-18.461	-11.182	1.00	23.59
ATOM	11523	N	GLY	1710	32.499	-16.521	-10.127	1.00	22.85
ATOM	11524	CA	GLY	1710	31.143	-16.032	-10.261	1.00	21.26
ATOM	11525	C	GLY	1710	31.131	-14.522	-10.289	1.00	19.07
ATOM	11526	O	GLY	1710	32.168	-13.878	-10.113	1.00	18.22
ATOM	11527	N	GLN	1711	29.949	-13.956	-10.505	1.00	18.74
ATOM	11528	CA	GLN	1711	29.790	-12.510	-10.570	1.00	18.89
ATOM	11529	CB	GLN	1711	29.502	-12.074	-12.007	1.00	18.46
ATOM	11530	CG	GLN	1711	30.592	-12.373	-13.018	1.00	15.95
ATOM	11531	CD	GLN	1711	31.848	-11.589	-12.758	1.00	19.23
ATOM	11532	OE1	GLN	1711	31.796	-10.409	-12.418	1.00	20.10
ATOM	11533	NE2	GLN	1711	32.995	-12.237	-12.930	1.00	21.35
ATOM	11534	C	GLN	1711	28.623	-12.056	-9.712	1.00	19.28
ATOM	11535	O	GLN	1711	27.756	-12.852	-9.359	1.00	18.49
ATOM	11536	N	ILE	1712	28.605	-10.767	-9.401	1.00	21.16
ATOM	11537	CA	ILE	1712	27.522	-10.172	-8.634	1.00	23.23
ATOM	11538	CB	ILE	1712	27.772	-10.262	-7.109	1.00	24.48
ATOM	11539	CG2	ILE	1712	28.930	-9.342	-6.706	1.00	25.08
ATOM	11540	CG1	ILE	1712	26.492	-9.870	-6.365	1.00	25.35
ATOM	11541	CD1	ILE	1712	26.463	-10.280	-4.898	1.00	29.02
ATOM	11542	C	ILE	1712	27.374	-8.710	-9.055	1.00	24.32
ATOM	11543	O	ILE	1712	28.328	-8.085	-9.539	1.00	23.00
ATOM	11544	N	LEU	1713	26.172	-8.169	-8.888	1.00	24.37
ATOM	11545	CA	LEU	1713	25.914	-6.778	-9.249	1.00	27.03
ATOM	11546	CB	LEU	1713	25.837	-6.650	-10.772	1.00	30.07
ATOM	11547	CG	LEU	1713	26.489	-5.428	-11.427	1.00	33.56
ATOM	11548	CD1	LEU	1713	26.318	-5.532	-12.934	1.00	36.19
ATOM	11549	CD2	LEU	1713	25.851	-4.137	-10.908	1.00	36.32
ATOM	11550	C	LEU	1713	24.609	-6.296	-8.620	1.00	26.45
ATOM	11551	O	LEU	1713	23.723	-7.099	-8.338	1.00	23.98
ATOM	11552	N	VAL	1714	24.509	-4.989	-8.386	1.00	25.79
ATOM	11553	CA	VAL	1714	23.299	-4.410	-7.808	1.00	25.33
ATOM	11554	CB	VAL	1714	23.522	-2.943	-7.363	1.00	26.34
ATOM	11555	CG1	VAL	1714	22.245	-2.379	-6.750	1.00	25.51
ATOM	11556	CG2	VAL	1714	24.660	-2.878	-6.351	1.00	27.39
ATOM	11557	C	VAL	1714	22.215	-4.466	-8.886	1.00	24.33
ATOM	11558	O	VAL	1714	22.379	-3.913	-9.978	1.00	21.59
ATOM	11559	N	MET	1715	21.115	-5.146	-8.573	1.00	22.29
ATOM	11560	CA	MET	1715	20.026	-5.302	-9.521	1.00	20.64
ATOM	11561	CB	MET	1715	18.855	-6.059	-8.881	1.00	18.66
ATOM	11562	CG	MET	1715	18.253	-5.362	-7.667	1.00	16.03
ATOM	11563	SD	MET	1715	16.444	-5.523	-7.565	1.00	14.77
ATOM	11564	CE	MET	1715	15.937	-4.242	-8.684	1.00	11.94
ATOM	11565	C	MET	1715	19.519	-3.983	-10.101	1.00	19.82
ATOM	11566	O	MET	1715	19.002	-3.953	-11.213	1.00	21.61
ATOM	11567	N	HIS	1716	19.668	-2.890	-9.364	1.00	19.03
ATOM	11568	CA	HIS	1716	19.192	-1.600	-9.855	1.00	22.19
ATOM	11569	CB	HIS	1716	19.137	-0.596	-8.703	1.00	20.78
ATOM	11570	CG	HIS	1716	18.098	-0.932	-7.675	1.00	21.06
ATOM	11571	CD2	HIS	1716	18.126	-1.784	-6.623	1.00	18.32
ATOM	11572	ND1	HIS	1716	16.826	-0.399	-7.699	1.00	20.68
ATOM	11573	CE1	HIS	1716	16.116	-0.907	-6.707	1.00	18.23
ATOM	11574	NE2	HIS	1716	16.882	-1.750	-6.039	1.00	21.81
ATOM	11575	C	HIS	1716	20.035	-1.067	-11.018	1.00	22.57
ATOM	11576	O	HIS	1716	19.558	-0.273	-11.835	1.00	22.73
ATOM	11577	N	ASP	1717	21.287	-1.504	-11.097	1.00	23.70
ATOM	11578	CA	ASP	1717	22.145	-1.089	-12.199	1.00	26.09

ATOM	11579	CB	ASP	1717	23.615	-1.081	-11.769	1.00	27.37
ATOM	11580	CG	ASP	1717	23.891	-0.070	-10.672	1.00	27.23
ATOM	11581	OD1	ASP	1717	23.334	1.040	-10.740	1.00	28.27
ATOM	11582	OD2	ASP	1717	24.663	-0.386	-9.748	1.00	27.57
ATOM	11583	C	ASP	1717	21.939	-2.064	-13.353	1.00	27.25
ATOM	11584	O	ASP	1717	22.022	-1.687	-14.522	1.00	26.75
ATOM	11585	N	ALA	1718	21.641	-3.315	-13.013	1.00	26.99
ATOM	11586	CA	ALA	1718	21.424	-4.349	-14.019	1.00	28.53
ATOM	11587	CB	ALA	1718	21.320	-5.716	-13.344	1.00	28.27
ATOM	11588	C	ALA	1718	20.196	-4.099	-14.896	1.00	28.41
ATOM	11589	O	ALA	1718	20.106	-4.644	-15.995	1.00	29.83
ATOM	11590	N	PHE	1719	19.258	-3.278	-14.422	1.00	30.20
ATOM	11591	CA	PHE	1719	18.053	-2.968	-15.197	1.00	29.35
ATOM	11592	CB	PHE	1719	16.797	-3.436	-14.458	1.00	30.92
ATOM	11593	CG	PHE	1719	16.863	-4.866	-14.004	1.00	31.07
ATOM	11594	CD1	PHE	1719	17.299	-5.863	-14.870	1.00	34.00
ATOM	11595	CD2	PHE	1719	16.500	-5.215	-12.708	1.00	33.37
ATOM	11596	CE1	PHE	1719	17.379	-7.187	-14.453	1.00	33.82
ATOM	11597	CE2	PHE	1719	16.574	-6.537	-12.278	1.00	34.22
ATOM	11598	CZ	PHE	1719	17.016	-7.524	-13.155	1.00	35.15
ATOM	11599	C	PHE	1719	17.912	-1.484	-15.533	1.00	30.03
ATOM	11600	O	PHE	1719	16.837	-1.021	-15.919	1.00	29.75
ATOM	11601	N	GLY	1720	18.999	-0.738	-15.391	1.00	30.77
ATOM	11602	CA	GLY	1720	18.955	0.680	-15.699	1.00	29.22
ATOM	11603	C	GLY	1720	17.997	1.486	-14.839	1.00	29.76
ATOM	11604	O	GLY	1720	17.524	2.546	-15.258	1.00	30.07
ATOM	11605	N	ILE	1721	17.701	0.998	-13.638	1.00	25.96
ATOM	11606	CA	ILE	1721	16.806	1.721	-12.743	1.00	25.33
ATOM	11607	CB	ILE	1721	16.312	0.817	-11.572	1.00	21.96
ATOM	11608	CG2	ILE	1721	15.463	1.629	-10.606	1.00	22.06
ATOM	11609	CG1	ILE	1721	15.492	-0.352	-12.118	1.00	23.00
ATOM	11610	CD1	ILE	1721	15.126	-1.395	-11.081	1.00	22.54
ATOM	11611	C	ILE	1721	17.530	2.940	-12.168	1.00	25.41
ATOM	11612	O	ILE	1721	16.960	4.020	-12.089	1.00	25.23
ATOM	11613	N	THR	1722	18.792	2.766	-11.778	1.00	28.45
ATOM	11614	CA	THR	1722	19.563	3.871	-11.206	1.00	31.68
ATOM	11615	CB	THR	1722	20.885	3.387	-10.588	1.00	31.93
ATOM	11616	OG1	THR	1722	21.778	2.969	-11.626	1.00	35.74
ATOM	11617	CG2	THR	1722	20.634	2.227	-9.643	1.00	28.90
ATOM	11618	C	THR	1722	19.895	4.940	-12.243	1.00	34.83
ATOM	11619	O	THR	1722	20.220	4.621	-13.386	1.00	34.13
ATOM	11620	N	GLY	1723	19.811	6.200	-11.816	1.00	38.15
ATOM	11621	CA	GLY	1723	20.100	7.342	-12.667	1.00	44.26
ATOM	11622	C	GLY	1723	20.393	7.053	-14.126	1.00	48.27
ATOM	11623	O	GLY	1723	19.534	6.554	-14.857	1.00	50.07
ATOM	11624	N	GLY	1724	21.612	7.368	-14.554	1.00	50.26
ATOM	11625	CA	GLY	1724	21.990	7.136	-15.936	1.00	52.51
ATOM	11626	C	GLY	1724	23.414	6.641	-16.078	1.00	54.09
ATOM	11627	O	GLY	1724	23.677	5.698	-16.825	1.00	55.33
ATOM	11628	N	HIS	1725	24.338	7.275	-15.363	1.00	55.09
ATOM	11629	CA	HIS	1725	25.742	6.881	-15.429	1.00	56.44
ATOM	11630	CB	HIS	1725	26.648	8.096	-15.214	1.00	58.71
ATOM	11631	CG	HIS	1725	26.616	9.079	-16.342	1.00	61.40
ATOM	11632	CD2	HIS	1725	26.415	10.418	-16.354	1.00	62.22
ATOM	11633	ND1	HIS	1725	26.821	8.711	-17.654	1.00	62.27
ATOM	11634	CE1	HIS	1725	26.748	9.780	-18.426	1.00	63.11
ATOM	11635	NE2	HIS	1725	26.503	10.829	-17.662	1.00	63.16
ATOM	11636	C	HIS	1725	26.097	5.797	-14.419	1.00	55.56
ATOM	11637	O	HIS	1725	26.673	6.078	-13.369	1.00	55.59
ATOM	11638	N	ILE	1726	25.754	4.555	-14.748	1.00	54.42
ATOM	11639	CA	ILE	1726	26.044	3.425	-13.875	1.00	53.21
ATOM	11640	CB	ILE	1726	25.356	2.134	-14.382	1.00	53.76
ATOM	11641	CG2	ILE	1726	23.843	2.277	-14.290	1.00	53.32
ATOM	11642	CG1	ILE	1726	25.788	1.845	-15.822	1.00	54.09
ATOM	11643	CD1	ILE	1726	25.277	0.524	-16.365	1.00	53.89
ATOM	11644	C	ILE	1726	27.554	3.195	-13.821	1.00	51.83
ATOM	11645	O	ILE	1726	28.297	3.700	-14.665	1.00	51.84
ATOM	11646	N	PRO	1727	28.029	2.431	-12.825	1.00	49.69
ATOM	11647	CD	PRO	1727	27.283	1.702	-11.785	1.00	49.25
ATOM	11648	CA	PRO	1727	29.468	2.172	-12.715	1.00	48.30
ATOM	11649	CB	PRO	1727	29.566	1.318	-11.453	1.00	48.75
ATOM	11650	CG	PRO	1727	28.250	0.611	-11.416	1.00	49.22
ATOM	11651	C	PRO	1727	30.040	1.480	-13.953	1.00	46.66
ATOM	11652	O	PRO	1727	29.368	0.669	-14.589	1.00	46.75
ATOM	11653	N	LYS	1728	31.283	1.808	-14.290	1.00	44.70
ATOM	11654	CA	LYS	1728	31.940	1.230	-15.457	1.00	42.31
ATOM	11655	CB	LYS	1728	33.379	1.747	-15.571	1.00	45.34



ATOM	11656	CG	LYS	1728	33.500	3.186	-16.065	1.00	49.29
ATOM	11657	CD	LYS	1728	32.922	4.188	-15.074	1.00	51.69
ATOM	11658	CE	LYS	1728	33.050	5.614	-15.598	1.00	52.92
ATOM	11659	NZ	LYS	1728	32.499	6.622	-14.646	1.00	54.39
ATOM	11660	C	LYS	1728	31.954	-0.293	-15.470	1.00	38.59
ATOM	11661	O	LYS	1728	31.994	-0.906	-16.536	1.00	37.57
ATOM	11662	N	PHE	1729	31.920	-0.904	-14.292	1.00	34.69
ATOM	11663	CA	PHE	1729	31.947	-2.358	-14.201	1.00	30.76
ATOM	11664	CB	PHE	1729	32.582	-2.782	-12.870	1.00	31.47
ATOM	11665	CG	PHE	1729	31.882	-2.234	-11.657	1.00	31.03
ATOM	11666	CD1	PHE	1729	30.666	-2.765	-11.232	1.00	31.72
ATOM	11667	CD2	PHE	1729	32.445	-1.190	-10.932	1.00	31.83
ATOM	11668	CE1	PHE	1729	30.027	-2.265	-10.099	1.00	30.43
ATOM	11669	CE2	PHE	1729	31.816	-0.684	-9.800	1.00	32.00
ATOM	11670	CZ	PHE	1729	30.604	-1.222	-9.381	1.00	32.08
ATOM	11671	C	PHE	1729	30.571	-2.999	-14.346	1.00	27.80
ATOM	11672	O	PHE	1729	30.460	-4.215	-14.486	1.00	26.63
ATOM	11673	N	ALA	1730	29.526	-2.181	-14.321	1.00	26.96
ATOM	11674	CA	ALA	1730	28.165	-2.694	-14.435	1.00	26.38
ATOM	11675	CB	ALA	1730	27.243	-1.938	-13.486	1.00	25.85
ATOM	11676	C	ALA	1730	27.627	-2.611	-15.852	1.00	26.64
ATOM	11677	O	ALA	1730	28.155	-1.886	-16.694	1.00	27.21
ATOM	11678	N	LYS	1731	26.565	-3.362	-16.112	1.00	25.32
ATOM	11679	CA	LYS	1731	25.951	-3.348	-17.427	1.00	26.32
ATOM	11680	CB	LYS	1731	26.419	-4.550	-18.241	1.00	27.13
ATOM	11681	CG	LYS	1731	25.726	-4.683	-19.587	1.00	29.75
ATOM	11682	CD	LYS	1731	26.304	-5.843	-20.375	1.00	31.89
ATOM	11683	CE	LYS	1731	25.551	-6.072	-21.667	1.00	32.08
ATOM	11684	NZ	LYS	1731	26.136	-7.215	-22.417	1.00	34.11
ATOM	11685	C	LYS	1731	24.431	-3.361	-17.307	1.00	25.48
ATOM	11686	O	LYS	1731	23.868	-4.094	-16.498	1.00	24.67
ATOM	11687	N	ASN	1732	23.779	-2.534	-18.113	1.00	24.62
ATOM	11688	CA	ASN	1732	22.326	-2.450	-18.112	1.00	24.54
ATOM	11689	CB	ASN	1732	21.883	-1.055	-18.565	1.00	23.33
ATOM	11690	CG	ASN	1732	20.371	-0.911	-18.640	1.00	21.61
ATOM	11691	OD1	ASN	1732	19.637	-1.889	-18.565	1.00	19.03
ATOM	11692	ND2	ASN	1732	19.903	0.326	-18.804	1.00	23.82
ATOM	11693	C	ASN	1732	21.785	-3.508	-19.068	1.00	25.76
ATOM	11694	O	ASN	1732	21.773	-3.302	-20.283	1.00	25.61
ATOM	11695	N	PHE	1733	21.344	-4.637	-18.520	1.00	25.01
ATOM	11696	CA	PHE	1733	20.811	-5.719	-19.337	1.00	25.29
ATOM	11697	CB	PHE	1733	20.880	-7.049	-18.582	1.00	26.19
ATOM	11698	CG	PHE	1733	22.279	-7.524	-18.325	1.00	25.90
ATOM	11699	CD1	PHE	1733	22.973	-7.108	-17.195	1.00	26.87
ATOM	11700	CD2	PHE	1733	22.922	-8.353	-19.237	1.00	26.66
ATOM	11701	CE1	PHE	1733	24.292	-7.510	-16.975	1.00	25.54
ATOM	11702	CE2	PHE	1733	24.242	-8.761	-19.029	1.00	26.56
ATOM	11703	CZ	PHE	1733	24.926	-8.335	-17.895	1.00	27.21
ATOM	11704	C	PHE	1733	19.380	-5.471	-19.807	1.00	26.55
ATOM	11705	O	PHE	1733	18.902	-6.133	-20.726	1.00	22.93
ATOM	11706	N	LEU	1734	18.696	-4.521	-19.178	1.00	27.50
ATOM	11707	CA	LEU	1734	17.330	-4.212	-19.569	1.00	29.76
ATOM	11708	CB	LEU	1734	16.605	-3.451	-18.461	1.00	28.65
ATOM	11709	CG	LEU	1734	15.196	-2.972	-18.829	1.00	27.48
ATOM	11710	CD1	LEU	1734	14.348	-4.147	-19.304	1.00	25.62
ATOM	11711	CD2	LEU	1734	14.566	-2.305	-17.625	1.00	23.90
ATOM	11712	C	LEU	1734	17.293	-3.383	-20.847	1.00	32.37
ATOM	11713	O	LEU	1734	16.613	-3.748	-21.804	1.00	31.12
ATOM	11714	N	ALA	1735	18.023	-2.270	-20.855	1.00	36.48
ATOM	11715	CA	ALA	1735	18.068	-1.378	-22.011	1.00	42.29
ATOM	11716	CB	ALA	1735	19.293	-0.470	-21.929	1.00	42.69
ATOM	11717	C	ALA	1735	18.100	-2.186	-23.297	1.00	46.05
ATOM	11718	O	ALA	1735	17.499	-1.801	-24.307	1.00	46.72
ATOM	11719	N	GLU	1736	18.797	-3.317	-23.239	1.00	49.05
ATOM	11720	CA	GLU	1736	18.923	-4.225	-24.374	1.00	51.86
ATOM	11721	CB	GLU	1736	19.548	-5.551	-23.913	1.00	53.55
ATOM	11722	CG	GLU	1736	20.814	-5.411	-23.072	1.00	55.23
ATOM	11723	CD	GLU	1736	22.018	-4.944	-23.873	1.00	57.29
ATOM	11724	OE1	GLU	1736	21.940	-3.866	-24.505	1.00	58.69
ATOM	11725	OE2	GLU	1736	23.046	-5.657	-23.869	1.00	57.04
ATOM	11726	C	GLU	1736	17.546	-4.495	-24.986	1.00	52.19
ATOM	11727	O	GLU	1736	17.355	-4.351	-26.195	1.00	53.04
ATOM	11728	N	THR	1737	16.594	-4.876	-24.134	1.00	51.41
ATOM	11729	CA	THR	1737	15.228	-5.187	-24.551	1.00	49.15
ATOM	11730	CB	THR	1737	14.969	-6.699	-24.442	1.00	50.52
ATOM	11731	OG1	THR	1737	13.658	-7.002	-24.935	1.00	54.05
ATOM	11732	CG2	THR	1737	15.082	-7.146	-22.993	1.00	51.48

ATOM	11733	C	THR	1737	14.202	-4.449	-23.685	1.00	46.27
ATOM	11734	O	THR	1737	14.491	-3.381	-23.149	1.00	47.44
ATOM	11735	N	GLY	1738	13.004	-5.015	-23.557	1.00	42.24
ATOM	11736	CA	GLY	1738	11.969	-4.397	-22.742	1.00	36.72
ATOM	11737	C	GLY	1738	11.296	-5.412	-21.831	1.00	33.77
ATOM	11738	O	GLY	1738	10.106	-5.314	-21.520	1.00	31.85
ATOM	11739	N	ASP	1739	12.076	-6.395	-21.398	1.00	31.02
ATOM	11740	CA	ASP	1739	11.587	-7.461	-20.535	1.00	29.23
ATOM	11741	CB	ASP	1739	11.418	-8.744	-21.358	1.00	32.58
ATOM	11742	CG	ASP	1739	10.678	-9.832	-20.609	1.00	35.23
ATOM	11743	OD1	ASP	1739	11.103	-10.195	-19.493	1.00	35.59
ATOM	11744	OD2	ASP	1739	9.667	-10.332	-21.147	1.00	38.35
ATOM	11745	C	ASP	1739	12.612	-7.688	-19.425	1.00	26.10
ATOM	11746	O	ASP	1739	13.748	-8.092	-19.691	1.00	24.19
ATOM	11747	N	ILE	1740	12.215	-7.417	-18.184	1.00	23.09
ATOM	11748	CA	ILE	1740	13.111	-7.596	-17.050	1.00	21.06
ATOM	11749	CB	ILE	1740	12.454	-7.102	-15.740	1.00	20.26
ATOM	11750	CG2	ILE	1740	13.307	-7.516	-14.531	1.00	21.30
ATOM	11751	CG1	ILE	1740	12.300	-5.584	-15.794	1.00	20.28
ATOM	11752	CD1	ILE	1740	11.517	-4.983	-14.637	1.00	21.21
ATOM	11753	C	ILE	1740	13.545	-9.049	-16.896	1.00	19.53
ATOM	11754	O	ILE	1740	14.724	-9.337	-16.663	1.00	20.00
ATOM	11755	N	ARG	1741	12.600	-9.971	-17.030	1.00	18.98
ATOM	11756	CA	ARG	1741	12.937	-11.384	-16.911	1.00	19.96
ATOM	11757	CB	ARG	1741	11.668	-12.236	-16.974	1.00	19.87
ATOM	11758	CG	ARG	1741	10.849	-12.142	-15.696	1.00	21.32
ATOM	11759	CD	ARG	1741	9.513	-12.853	-15.810	1.00	23.47
ATOM	11760	NE	ARG	1741	8.776	-12.794	-14.549	1.00	25.80
ATOM	11761	CZ	ARG	1741	8.294	-11.676	-14.013	1.00	27.35
ATOM	11762	NH1	ARG	1741	8.462	-10.514	-14.627	1.00	29.85
ATOM	11763	NH2	ARG	1741	7.651	-11.716	-12.853	1.00	28.28
ATOM	11764	C	ARG	1741	13.936	-11.809	-17.984	1.00	20.67
ATOM	11765	O	ARG	1741	14.888	-12.546	-17.702	1.00	20.44
ATOM	11766	N	ALA	1742	13.733	-11.333	-19.209	1.00	18.88
ATOM	11767	CA	ALA	1742	14.642	-11.663	-20.299	1.00	19.67
ATOM	11768	CB	ALA	1742	14.100	-11.119	-21.617	1.00	17.58
ATOM	11769	C	ALA	1742	16.012	-11.057	-20.002	1.00	19.77
ATOM	11770	O	ALA	1742	17.040	-11.601	-20.391	1.00	21.64
ATOM	11771	N	ALA	1743	16.011	-9.923	-19.308	1.00	19.15
ATOM	11772	CA	ALA	1743	17.245	-9.244	-18.946	1.00	18.94
ATOM	11773	CB	ALA	1743	16.934	-7.880	-18.354	1.00	19.04
ATOM	11774	C	ALA	1743	18.006	-10.095	-17.932	1.00	19.62
ATOM	11775	O	ALA	1743	19.231	-10.194	-17.984	1.00	19.37
ATOM	11776	N	VAL	1744	17.268	-10.706	-17.010	1.00	20.08
ATOM	11777	CA	VAL	1744	17.861	-11.560	-15.992	1.00	19.96
ATOM	11778	CB	VAL	1744	16.791	-12.000	-14.961	1.00	21.45
ATOM	11779	CG1	VAL	1744	17.314	-13.143	-14.099	1.00	19.83
ATOM	11780	CG2	VAL	1744	16.429	-10.812	-14.071	1.00	18.35
ATOM	11781	C	VAL	1744	18.485	-12.783	-16.659	1.00	22.05
ATOM	11782	O	VAL	1744	19.602	-13.197	-16.326	1.00	21.12
ATOM	11783	N	ARG	1745	17.762	-13.356	-17.612	1.00	21.99
ATOM	11784	CA	ARG	1745	18.265	-14.515	-18.333	1.00	24.40
ATOM	11785	CB	ARG	1745	17.191	-15.066	-19.275	1.00	25.74
ATOM	11786	CG	ARG	1745	15.991	-15.664	-18.561	1.00	26.03
ATOM	11787	CD	ARG	1745	15.141	-16.466	-19.527	1.00	29.74
ATOM	11788	NE	ARG	1745	14.575	-15.629	-20.580	1.00	31.09
ATOM	11789	CZ	ARG	1745	13.454	-14.924	-20.456	1.00	33.26
ATOM	11790	NH1	ARG	1745	12.767	-14.957	-19.320	1.00	31.03
ATOM	11791	NH2	ARG	1745	13.024	-14.183	-21.470	1.00	33.72
ATOM	11792	C	ARG	1745	19.523	-14.161	-19.126	1.00	24.45
ATOM	11793	O	ARG	1745	20.420	-14.994	-19.283	1.00	23.74
ATOM	11794	N	GLN	1746	19.598	-12.925	-19.612	1.00	24.53
ATOM	11795	CA	GLN	1746	20.759	-12.490	-20.389	1.00	24.66
ATOM	11796	CB	GLN	1746	20.500	-11.120	-21.022	1.00	24.98
ATOM	11797	CG	GLN	1746	21.506	-10.729	-22.100	1.00	26.46
ATOM	11798	CD	GLN	1746	21.249	-9.339	-22.651	1.00	28.72
ATOM	11799	OE1	GLN	1746	20.132	-9.019	-23.066	1.00	27.11
ATOM	11800	NE2	GLN	1746	22.282	-8.506	-22.662	1.00	30.62
ATOM	11801	C	GLN	1746	21.984	-12.410	-19.491	1.00	24.23
ATOM	11802	O	GLN	1746	23.071	-12.850	-19.860	1.00	23.92
ATOM	11803	N	TYR	1747	21.800	-11.831	-18.311	1.00	23.27
ATOM	11804	CA	TYR	1747	22.883	-11.693	-17.352	1.00	22.18
ATOM	11805	CB	TYR	1747	22.363	-10.949	-16.114	1.00	21.72
ATOM	11806	CG	TYR	1747	23.266	-10.978	-14.901	1.00	20.80
ATOM	11807	CD1	TYR	1747	24.581	-10.525	-14.969	1.00	20.83
ATOM	11808	CE1	TYR	1747	25.406	-10.540	-13.844	1.00	21.19
ATOM	11809	CD2	TYR	1747	22.794	-11.446	-13.677	1.00	20.71

ATOM	11810	CE2	TYR	1747	23.610	-11.463	-12.546	1.00	21.91
ATOM	11811	CZ	TYR	1747	24.913	-11.011	-12.640	1.00	20.88
ATOM	11812	OH	TYR	1747	25.730	-11.044	-11.530	1.00	22.08
ATOM	11813	C	TYR	1747	23.417	-13.079	-16.987	1.00	21.20
ATOM	11814	O	TYR	1747	24.625	-13.303	-16.992	1.00	21.41
ATOM	11815	N	MET	1748	22.516	-14.010	-16.692	1.00	19.89
ATOM	11816	CA	MET	1748	22.915	-15.370	-16.327	1.00	22.82
ATOM	11817	CB	MET	1748	21.680	-16.205	-15.994	1.00	22.86
ATOM	11818	CG	MET	1748	20.883	-15.673	-14.814	1.00	24.78
ATOM	11819	SD	MET	1748	19.282	-16.477	-14.671	1.00	29.17
ATOM	11820	CE	MET	1748	19.786	-18.014	-13.979	1.00	26.45
ATOM	11821	C	MET	1748	23.692	-16.047	-17.452	1.00	22.62
ATOM	11822	O	MET	1748	24.653	-16.786	-17.213	1.00	21.81
ATOM	11823	N	ALA	1749	23.262	-15.790	-18.680	1.00	22.35
ATOM	11824	CA	ALA	1749	23.900	-16.374	-19.848	1.00	21.37
ATOM	11825	CB	ALA	1749	22.980	-16.228	-21.061	1.00	22.11
ATOM	11826	C	ALA	1749	25.268	-15.766	-20.148	1.00	20.89
ATOM	11827	O	ALA	1749	26.212	-16.489	-20.461	1.00	23.24
ATOM	11828	N	GLU	1750	25.390	-14.446	-20.053	1.00	21.41
ATOM	11829	CA	GLU	1750	26.671	-13.808	-20.352	1.00	21.76
ATOM	11830	CB	GLU	1750	26.497	-12.300	-20.528	1.00	23.39
ATOM	11831	CG	GLU	1750	25.501	-11.917	-21.613	1.00	25.73
ATOM	11832	CD	GLU	1750	25.685	-10.499	-22.093	1.00	25.79
ATOM	11833	OE1	GLU	1750	26.438	-9.746	-21.442	1.00	25.87
ATOM	11834	OE2	GLU	1750	25.070	-10.130	-23.123	1.00	28.21
ATOM	11835	C	GLU	1750	27.749	-14.084	-19.307	1.00	23.50
ATOM	11836	O	GLU	1750	28.942	-14.115	-19.627	1.00	21.76
ATOM	11837	N	VAL	1751	27.345	-14.269	-18.054	1.00	23.02
ATOM	11838	CA	VAL	1751	28.317	-14.558	-17.007	1.00	23.63
ATOM	11839	CB	VAL	1751	27.674	-14.482	-15.593	1.00	23.59
ATOM	11840	CG1	VAL	1751	28.597	-15.124	-14.563	1.00	22.90
ATOM	11841	CG2	VAL	1751	27.431	-13.029	-15.214	1.00	22.54
ATOM	11842	C	VAL	1751	28.893	-15.952	-17.233	1.00	24.14
ATOM	11843	O	VAL	1751	30.100	-16.164	-17.100	1.00	25.38
ATOM	11844	N	GLU	1752	28.028	-16.895	-17.589	1.00	24.05
ATOM	11845	CA	GLU	1752	28.459	-18.264	-17.834	1.00	26.81
ATOM	11846	CB	GLU	1752	27.247	-19.196	-17.907	1.00	28.09
ATOM	11847	CG	GLU	1752	27.611	-20.655	-18.151	1.00	30.83
ATOM	11848	CD	GLU	1752	26.452	-21.589	-17.904	1.00	30.97
ATOM	11849	OE1	GLU	1752	26.551	-22.775	-18.279	1.00	32.52
ATOM	11850	OE2	GLU	1752	25.439	-21.143	-17.328	1.00	31.48
ATOM	11851	C	GLU	1752	29.284	-18.397	-19.113	1.00	28.55
ATOM	11852	O	GLU	1752	30.237	-19.173	-19.164	1.00	29.30
ATOM	11853	N	SER	1753	28.914	-17.646	-20.146	1.00	28.43
ATOM	11854	CA	SER	1753	29.640	-17.701	-21.413	1.00	29.68
ATOM	11855	CB	SER	1753	28.832	-17.023	-22.521	1.00	30.24
ATOM	11856	OG	SER	1753	27.577	-17.653	-22.696	1.00	36.50
ATOM	11857	C	SER	1753	30.988	-17.008	-21.283	1.00	30.05
ATOM	11858	O	SER	1753	31.950	-17.366	-21.961	1.00	29.58
ATOM	11859	N	GLY	1754	31.047	-16.013	-20.404	1.00	28.51
ATOM	11860	CA	GLY	1754	32.276	-15.269	-20.213	1.00	27.36
ATOM	11861	C	GLY	1754	32.203	-13.911	-20.888	1.00	26.65
ATOM	11862	O	GLY	1754	33.136	-13.113	-20.801	1.00	26.59
ATOM	11863	N	VAL	1755	31.085	-13.644	-21.556	1.00	25.85
ATOM	11864	CA	VAL	1755	30.885	-12.379	-22.252	1.00	26.68
ATOM	11865	CB	VAL	1755	29.604	-12.421	-23.099	1.00	28.95
ATOM	11866	CG1	VAL	1755	29.419	-11.106	-23.840	1.00	29.75
ATOM	11867	CG2	VAL	1755	29.686	-13.578	-24.081	1.00	31.72
ATOM	11868	C	VAL	1755	30.807	-11.205	-21.286	1.00	26.82
ATOM	11869	O	VAL	1755	31.157	-10.073	-21.636	1.00	25.55
ATOM	11870	N	TYR	1756	30.346	-11.480	-20.068	1.00	25.63
ATOM	11871	CA	TYR	1756	30.233	-10.455	-19.031	1.00	25.13
ATOM	11872	CB	TYR	1756	28.764	-10.150	-18.707	1.00	25.56
ATOM	11873	CG	TYR	1756	28.618	-9.068	-17.657	1.00	24.46
ATOM	11874	CD1	TYR	1756	28.867	-7.734	-17.974	1.00	24.19
ATOM	11875	CE1	TYR	1756	28.852	-6.745	-16.998	1.00	25.87
ATOM	11876	CD2	TYR	1756	28.336	-9.388	-16.327	1.00	24.07
ATOM	11877	CE2	TYR	1756	28.319	-8.406	-15.338	1.00	24.15
ATOM	11878	CZ	TYR	1756	28.583	-7.086	-15.679	1.00	24.77
ATOM	11879	OH	TYR	1756	28.632	-6.112	-14.706	1.00	24.55
ATOM	11880	C	TYR	1756	30.931	-10.927	-17.761	1.00	25.03
ATOM	11881	O	TYR	1756	30.743	-12.059	-17.329	1.00	22.60
ATOM	11882	N	PRO	1757	31.748	-10.056	-17.145	1.00	27.09
ATOM	11883	CD	PRO	1757	32.331	-10.263	-15.807	1.00	26.60
ATOM	11884	CA	PRO	1757	32.016	-8.698	-17.622	1.00	28.05
ATOM	11885	CB	PRO	1757	32.530	-7.995	-16.370	1.00	29.31
ATOM	11886	CG	PRO	1757	33.281	-9.082	-15.679	1.00	29.30

ATOM	11887	C	PRO	1757	33.031	-8.664	-18.761	1.00	30.41
ATOM	11888	O	PRO	1757	33.900	-9.529	-18.855	1.00	30.25
ATOM	11889	N	GLY	1758	32.911	-7.663	-19.627	1.00	31.45
ATOM	11890	CA	GLY	1758	33.839	-7.537	-20.735	1.00	32.26
ATOM	11891	C	GLY	1758	35.007	-6.657	-20.339	1.00	33.47
ATOM	11892	O	GLY	1758	35.073	-6.183	-19.202	1.00	30.45
ATOM	11893	N	GLU	1759	35.932	-6.427	-21.265	1.00	34.20
ATOM	11894	CA	GLU	1759	37.088	-5.589	-20.966	1.00	36.05
ATOM	11895	CB	GLU	1759	38.020	-5.500	-22.179	1.00	37.61
ATOM	11896	CG	GLU	1759	39.230	-4.611	-21.932	1.00	39.60
ATOM	11897	CD	GLU	1759	40.075	-5.093	-20.765	1.00	40.84
ATOM	11898	OE1	GLU	1759	40.868	-4.288	-20.231	1.00	43.08
ATOM	11899	OE2	GLU	1759	39.949	-6.278	-20.390	1.00	40.65
ATOM	11900	C	GLU	1759	36.665	-4.181	-20.550	1.00	36.19
ATOM	11901	O	GLU	1759	37.293	-3.560	-19.693	1.00	36.76
ATOM	11902	N	GLU	1760	35.596	-3.683	-21.162	1.00	37.70
ATOM	11903	CA	GLU	1760	35.095	-2.347	-20.863	1.00	38.57
ATOM	11904	CB	GLU	1760	33.950	-1.980	-21.809	1.00	41.14
ATOM	11905	CG	GLU	1760	34.038	-2.619	-23.182	1.00	43.82
ATOM	11906	CD	GLU	1760	33.669	-4.089	-23.154	1.00	44.67
ATOM	11907	OE1	GLU	1760	32.538	-4.404	-22.730	1.00	45.33
ATOM	11908	OE2	GLU	1760	34.508	-4.925	-23.556	1.00	45.49
ATOM	11909	C	GLU	1760	34.598	-2.255	-19.426	1.00	37.43
ATOM	11910	O	GLU	1760	34.479	-1.162	-18.873	1.00	37.27
ATOM	11911	N	HIS	1761	34.306	-3.411	-18.835	1.00	36.62
ATOM	11912	CA	HIS	1761	33.809	-3.487	-17.462	1.00	36.41
ATOM	11913	CB	HIS	1761	32.650	-4.485	-17.373	1.00	34.33
ATOM	11914	CG	HIS	1761	31.541	-4.218	-18.343	1.00	33.22
ATOM	11915	CD2	HIS	1761	31.033	-4.973	-19.346	1.00	31.29
ATOM	11916	ND1	HIS	1761	30.806	-3.053	-18.329	1.00	32.96
ATOM	11917	CE1	HIS	1761	29.892	-3.101	-19.281	1.00	32.22
ATOM	11918	NE2	HIS	1761	30.008	-4.255	-19.912	1.00	32.69
ATOM	11919	C	HIS	1761	34.905	-3.941	-16.504	1.00	37.42
ATOM	11920	O	HIS	1761	34.620	-4.320	-15.369	1.00	38.41
ATOM	11921	N	SER	1762	36.153	-3.898	-16.960	1.00	37.25
ATOM	11922	CA	SER	1762	37.276	-4.338	-16.144	1.00	37.81
ATOM	11923	CB	SER	1762	37.960	-5.527	-16.819	1.00	37.82
ATOM	11924	OG	SER	1762	37.022	-6.539	-17.142	1.00	36.90
ATOM	11925	C	SER	1762	38.309	-3.245	-15.884	1.00	39.62
ATOM	11926	O	SER	1762	38.410	-2.277	-16.642	1.00	37.84
ATOM	11927	N	PHE	1763	39.069	-3.402	-14.802	1.00	40.54
ATOM	11928	CA	PHE	1763	40.112	-2.441	-14.458	1.00	43.38
ATOM	11929	CB	PHE	1763	39.929	-1.897	-13.037	1.00	44.18
ATOM	11930	CG	PHE	1763	38.661	-1.112	-12.840	1.00	45.64
ATOM	11931	CD1	PHE	1763	37.477	-1.752	-12.485	1.00	46.71
ATOM	11932	CD2	PHE	1763	38.648	0.269	-13.014	1.00	46.22
ATOM	11933	CE1	PHE	1763	36.297	-1.028	-12.305	1.00	46.58
ATOM	11934	CE2	PHE	1763	37.475	1.004	-12.838	1.00	46.28
ATOM	11935	CZ	PHE	1763	36.297	0.353	-12.482	1.00	46.49
ATOM	11936	C	PHE	1763	41.475	-3.110	-14.567	1.00	45.31
ATOM	11937	O	PHE	1763	41.568	-4.325	-14.742	1.00	45.15
ATOM	11938	N	HIS	1764	42.531	-2.309	-14.464	1.00	47.11
ATOM	11939	CA	HIS	1764	43.897	-2.814	-14.551	1.00	48.73
ATOM	11940	CB	HIS	1764	44.368	-2.804	-16.007	1.00	48.11
ATOM	11941	CG	HIS	1764	43.714	-3.847	-16.858	1.00	47.92
ATOM	11942	CD2	HIS	1764	42.833	-3.742	-17.881	1.00	47.14
ATOM	11943	ND1	HIS	1764	43.935	-5.196	-16.681	1.00	48.69
ATOM	11944	CE1	HIS	1764	43.218	-5.877	-17.557	1.00	47.18
ATOM	11945	NE2	HIS	1764	42.541	-5.018	-18.297	1.00	46.67
ATOM	11946	C	HIS	1764	44.848	-1.989	-13.694	1.00	49.73
ATOM	11947	O	HIS	1764	45.534	-2.589	-12.839	1.00	50.49
ATOM	11948	OXT	HIS	1764	44.896	-0.757	-13.887	1.00	51.77
ATOM	11949	C1	KPL	1765	27.748	-4.209	-4.469	1.00	37.13
ATOM	11950	C2	KPL	1765	27.949	-5.559	-3.746	1.00	36.67
ATOM	11951	C3	KPL	1765	27.104	-6.630	-4.447	1.00	36.77
ATOM	11952	C4	KPL	1765	29.432	-5.968	-3.834	1.00	38.31
ATOM	11953	O1	KPL	1765	30.255	-4.985	-3.190	1.00	40.50
ATOM	11954	C5	KPL	1765	27.511	-5.432	-2.265	1.00	36.08
ATOM	11955	O2	KPL	1765	28.306	-5.650	-1.372	1.00	36.16
ATOM	11956	C6	KPL	1765	26.106	-5.037	-1.885	1.00	33.38
ATOM	11957	O3	KPL	1765	25.273	-4.814	-2.736	1.00	35.07
ATOM	11958	O4	KPL	1765	25.770	-4.927	-0.590	1.00	32.90
ATOM	11959	CB	MET	1801	10.432	-42.440	39.264	1.00	62.99
ATOM	11960	CG	MET	1801	11.787	-41.787	39.475	1.00	64.83
ATOM	11961	SD	MET	1801	12.950	-42.846	40.338	1.00	67.79
ATOM	11962	CE	MET	1801	12.685	-42.311	42.031	1.00	67.34
ATOM	11963	C	MET	1801	8.891	-40.780	40.307	1.00	59.13

ATOM	11964	O	MET	1801	7.710	-40.737	40.655	1.00	59.38
ATOM	11965	N	MET	1801	9.705	-40.456	37.968	1.00	61.53
ATOM	11966	CA	MET	1801	9.294	-41.449	38.998	1.00	60.88
ATOM	11967	N	LYS	1802	9.874	-40.256	41.033	1.00	56.22
ATOM	11968	CA	LYS	1802	9.599	-39.612	42.312	1.00	53.19
ATOM	11969	CB	LYS	1802	9.801	-40.624	43.447	1.00	54.60
ATOM	11970	CG	LYS	1802	9.046	-41.941	43.283	1.00	55.72
ATOM	11971	CD	LYS	1802	7.557	-41.813	43.598	1.00	56.31
ATOM	11972	CE	LYS	1802	7.306	-41.678	45.099	1.00	56.54
ATOM	11973	NZ	LYS	1802	5.851	-41.687	45.436	1.00	55.62
ATOM	11974	C	LYS	1802	10.437	-38.361	42.596	1.00	49.88
ATOM	11975	O	LYS	1802	10.760	-38.088	43.759	1.00	50.44
ATOM	11976	N	PRO	1803	10.811	-37.590	41.560	1.00	45.52
ATOM	11977	CD	PRO	1803	11.320	-36.225	41.816	1.00	44.97
ATOM	11978	CA	PRO	1803	10.530	-37.761	40.132	1.00	41.04
ATOM	11979	CB	PRO	1803	10.376	-36.334	39.651	1.00	42.80
ATOM	11980	CG	PRO	1803	11.465	-35.650	40.414	1.00	43.86
ATOM	11981	C	PRO	1803	11.674	-38.481	39.414	1.00	36.05
ATOM	11982	O	PRO	1803	12.591	-38.991	40.056	1.00	34.80
ATOM	11983	N	THR	1804	11.621	-38.511	38.084	1.00	30.62
ATOM	11984	CA	THR	1804	12.666	-39.155	37.283	1.00	26.97
ATOM	11985	CB	THR	1804	12.172	-39.435	35.853	1.00	25.88
ATOM	11986	OG1	THR	1804	11.046	-40.323	35.902	1.00	24.56
ATOM	11987	CG2	THR	1804	13.276	-40.073	35.021	1.00	22.12
ATOM	11988	C	THR	1804	13.880	-38.232	37.215	1.00	24.43
ATOM	11989	O	THR	1804	13.752	-37.056	36.888	1.00	22.49
ATOM	11990	N	THR	1805	15.055	-38.769	37.524	1.00	23.84
ATOM	11991	CA	THR	1805	16.278	-37.973	37.516	1.00	22.21
ATOM	11992	CB	THR	1805	16.829	-37.800	38.940	1.00	23.39
ATOM	11993	OG1	THR	1805	17.286	-39.072	39.423	1.00	25.01
ATOM	11994	CG2	THR	1805	15.756	-37.267	39.866	1.00	23.36
ATOM	11995	C	THR	1805	17.379	-38.614	36.682	1.00	21.44
ATOM	11996	O	THR	1805	17.268	-39.761	36.247	1.00	19.91
ATOM	11997	N	ILE	1806	18.453	-37.863	36.471	1.00	19.22
ATOM	11998	CA	ILE	1806	19.574	-38.376	35.706	1.00	20.35
ATOM	11999	CB	ILE	1806	20.696	-37.329	35.599	1.00	22.61
ATOM	12000	CG2	ILE	1806	21.806	-37.846	34.689	1.00	23.50
ATOM	12001	CG1	ILE	1806	20.133	-36.030	35.016	1.00	24.71
ATOM	12002	CD1	ILE	1806	21.079	-34.859	35.129	1.00	27.86
ATOM	12003	C	ILE	1806	20.108	-39.623	36.415	1.00	19.98
ATOM	12004	O	ILE	1806	20.612	-40.551	35.780	1.00	17.26
ATOM	12005	N	SER	1807	19.979	-39.652	37.736	1.00	19.88
ATOM	12006	CA	SER	1807	20.455	-40.796	38.505	1.00	20.30
ATOM	12007	CB	SER	1807	20.201	-40.578	40.000	1.00	22.82
ATOM	12008	OG	SER	1807	20.872	-39.418	40.459	1.00	29.05
ATOM	12009	C	SER	1807	19.777	-42.090	38.062	1.00	19.29
ATOM	12010	O	SER	1807	20.408	-43.148	38.010	1.00	18.78
ATOM	12011	N	LEU	1808	18.491	-42.002	37.741	1.00	19.36
ATOM	12012	CA	LEU	1808	17.731	-43.170	37.317	1.00	19.70
ATOM	12013	CB	LEU	1808	16.248	-42.828	37.204	1.00	21.62
ATOM	12014	CG	LEU	1808	15.233	-43.791	37.821	1.00	26.64
ATOM	12015	CD1	LEU	1808	13.896	-43.565	37.130	1.00	27.41
ATOM	12016	CD2	LEU	1808	15.658	-45.247	37.649	1.00	26.23
ATOM	12017	C	LEU	1808	18.218	-43.719	35.984	1.00	17.67
ATOM	12018	O	LEU	1808	18.294	-44.934	35.797	1.00	16.92
ATOM	12019	N	LEU	1809	18.528	-42.831	35.047	1.00	16.05
ATOM	12020	CA	LEU	1809	19.006	-43.273	33.740	1.00	15.75
ATOM	12021	CB	LEU	1809	19.110	-42.089	32.772	1.00	13.68
ATOM	12022	CG	LEU	1809	17.811	-41.302	32.527	1.00	16.26
ATOM	12023	CD1	LEU	1809	18.026	-40.320	31.380	1.00	11.13
ATOM	12024	CD2	LEU	1809	16.672	-42.238	32.202	1.00	15.56
ATOM	12025	C	LEU	1809	20.363	-43.936	33.900	1.00	16.76
ATOM	12026	O	LEU	1809	20.643	-44.952	33.267	1.00	17.33
ATOM	12027	N	GLN	1810	21.207	-43.363	34.752	1.00	18.12
ATOM	12028	CA	GLN	1810	22.526	-43.943	34.978	1.00	19.74
ATOM	12029	CB	GLN	1810	23.325	-43.078	35.957	1.00	22.02
ATOM	12030	CG	GLN	1810	24.818	-43.410	36.021	1.00	24.70
ATOM	12031	CD	GLN	1810	25.527	-43.270	34.676	1.00	24.85
ATOM	12032	OE1	GLN	1810	25.549	-44.197	33.869	1.00	26.62
ATOM	12033	NE2	GLN	1810	26.100	-42.101	34.430	1.00	25.00
ATOM	12034	C	GLN	1810	22.345	-45.363	35.520	1.00	20.60
ATOM	12035	O	GLN	1810	23.081	-46.275	35.142	1.00	19.97
ATOM	12036	N	LYS	1811	21.356	-45.553	36.391	1.00	20.73
ATOM	12037	CA	LYS	1811	21.088	-46.881	36.952	1.00	22.94
ATOM	12038	CB	LYS	1811	19.960	-46.825	37.989	1.00	25.60
ATOM	12039	CG	LYS	1811	19.688	-48.183	38.647	1.00	30.12
ATOM	12040	CD	LYS	1811	18.259	-48.325	39.172	1.00	34.97

ATOM	12041	CE	LYS	1811	17.969	-47.428	40.368	1.00	37.63
ATOM	12042	NZ	LYS	1811	16.572	-47.640	40.868	1.00	38.97
ATOM	12043	C	LYS	1811	20.677	-47.820	35.822	1.00	22.37
ATOM	12044	O	LYS	1811	21.130	-48.965	35.750	1.00	23.23
ATOM	12045	N	TYR	1812	19.803	-47.327	34.948	1.00	20.19
ATOM	12046	CA	TYR	1812	19.328	-48.108	33.806	1.00	19.41
ATOM	12047	CB	TYR	1812	18.394	-47.252	32.939	1.00	20.86
ATOM	12048	CG	TYR	1812	17.008	-47.048	33.529	1.00	23.68
ATOM	12049	CD1	TYR	1812	16.100	-46.165	32.941	1.00	25.01
ATOM	12050	CE1	TYR	1812	14.810	-46.011	33.456	1.00	28.32
ATOM	12051	CD2	TYR	1812	16.590	-47.769	34.650	1.00	25.69
ATOM	12052	CE2	TYR	1812	15.307	-47.623	35.169	1.00	26.94
ATOM	12053	CZ	TYR	1812	14.424	-46.748	34.568	1.00	27.83
ATOM	12054	OH	TYR	1812	13.147	-46.626	35.067	1.00	33.55
ATOM	12055	C	TYR	1812	20.488	-48.620	32.960	1.00	19.49
ATOM	12056	O	TYR	1812	20.478	-49.768	32.508	1.00	18.51
ATOM	12057	N	LYS	1813	21.486	-47.768	32.739	1.00	18.22
ATOM	12058	CA	LYS	1813	22.641	-48.177	31.950	1.00	18.58
ATOM	12059	CB	LYS	1813	23.577	-46.993	31.679	1.00	17.18
ATOM	12060	CG	LYS	1813	24.847	-47.399	30.924	1.00	14.61
ATOM	12061	CD	LYS	1813	25.545	-46.214	30.288	1.00	14.45
ATOM	12062	CE	LYS	1813	26.783	-46.661	29.524	1.00	13.10
ATOM	12063	NZ	LYS	1813	26.884	-45.976	28.193	1.00	12.51
ATOM	12064	C	LYS	1813	23.398	-49.284	32.688	1.00	19.88
ATOM	12065	O	LYS	1813	23.840	-50.247	32.076	1.00	19.85
ATOM	12066	N	GLN	1814	23.541	-49.144	34.001	1.00	23.03
ATOM	12067	CA	GLN	1814	24.238	-50.156	34.785	1.00	26.55
ATOM	12068	CB	GLN	1814	24.399	-49.695	36.229	1.00	30.23
ATOM	12069	CG	GLN	1814	25.271	-48.461	36.380	1.00	36.91
ATOM	12070	CD	GLN	1814	25.444	-48.052	37.827	1.00	40.35
ATOM	12071	OE1	GLN	1814	25.895	-48.843	38.655	1.00	43.65
ATOM	12072	NE2	GLN	1814	25.087	-46.811	38.142	1.00	43.19
ATOM	12073	C	GLN	1814	23.481	-51.480	34.745	1.00	26.92
ATOM	12074	O	GLN	1814	24.086	-52.553	34.697	1.00	29.93
ATOM	12075	N	GLU	1815	22.155	-51.402	34.756	1.00	26.78
ATOM	12076	CA	GLU	1815	21.313	-52.595	34.720	1.00	26.97
ATOM	12077	CB	GLU	1815	19.947	-52.290	35.342	1.00	29.31
ATOM	12078	CG	GLU	1815	20.023	-51.678	36.735	1.00	35.92
ATOM	12079	CD	GLU	1815	18.652	-51.375	37.325	1.00	38.20
ATOM	12080	OE1	GLU	1815	17.878	-50.624	36.694	1.00	40.52
ATOM	12081	OE2	GLU	1815	18.352	-51.886	38.424	1.00	42.17
ATOM	12082	C	GLU	1815	21.118	-53.075	33.285	1.00	24.86
ATOM	12083	O	GLU	1815	20.503	-54.113	33.048	1.00	24.50
ATOM	12084	N	LYS	1816	21.651	-52.318	32.331	1.00	23.60
ATOM	12085	CA	LYS	1816	21.516	-52.653	30.920	1.00	24.10
ATOM	12086	CB	LYS	1816	22.168	-54.012	30.619	1.00	27.06
ATOM	12087	CG	LYS	1816	23.690	-53.956	30.494	1.00	29.88
ATOM	12088	CD	LYS	1816	24.106	-53.130	29.280	1.00	33.12
ATOM	12089	CE	LYS	1816	25.622	-52.924	29.206	1.00	34.77
ATOM	12090	NZ	LYS	1816	26.378	-54.205	29.060	1.00	36.10
ATOM	12091	C	LYS	1816	20.048	-52.658	30.491	1.00	23.58
ATOM	12092	O	LYS	1816	19.635	-53.456	29.650	1.00	22.90
ATOM	12093	N	LYS	1817	19.258	-51.763	31.081	1.00	22.10
ATOM	12094	CA	LYS	1817	17.847	-51.649	30.730	1.00	19.64
ATOM	12095	CB	LYS	1817	16.982	-51.432	31.973	1.00	23.35
ATOM	12096	CG	LYS	1817	15.498	-51.274	31.636	1.00	26.44
ATOM	12097	CD	LYS	1817	14.682	-50.726	32.801	1.00	30.23
ATOM	12098	CE	LYS	1817	14.649	-51.683	33.980	1.00	33.21
ATOM	12099	NZ	LYS	1817	13.841	-51.115	35.101	1.00	36.99
ATOM	12100	C	LYS	1817	17.655	-50.463	29.790	1.00	19.22
ATOM	12101	O	LYS	1817	17.761	-49.311	30.212	1.00	15.14
ATOM	12102	N	ARG	1818	17.373	-50.756	28.523	1.00	17.56
ATOM	12103	CA	ARG	1818	17.165	-49.723	27.515	1.00	17.68
ATOM	12104	CB	ARG	1818	17.122	-50.354	26.121	1.00	17.01
ATOM	12105	CG	ARG	1818	18.516	-50.558	25.563	1.00	20.64
ATOM	12106	CD	ARG	1818	18.534	-51.433	24.331	1.00	26.16
ATOM	12107	NE	ARG	1818	18.303	-52.836	24.671	1.00	27.97
ATOM	12108	CZ	ARG	1818	18.504	-53.847	23.833	1.00	30.30
ATOM	12109	NH1	ARG	1818	18.942	-53.611	22.602	1.00	31.08
ATOM	12110	NH2	ARG	1818	18.266	-55.091	24.223	1.00	30.79
ATOM	12111	C	ARG	1818	15.898	-48.939	27.800	1.00	16.78
ATOM	12112	O	ARG	1818	14.858	-49.522	28.107	1.00	17.29
ATOM	12113	N	PHE	1819	15.986	-47.615	27.695	1.00	15.71
ATOM	12114	CA	PHE	1819	14.849	-46.764	28.005	1.00	13.45
ATOM	12115	CB	PHE	1819	15.167	-45.940	29.258	1.00	12.38
ATOM	12116	CG	PHE	1819	16.395	-45.082	29.135	1.00	10.54
ATOM	12117	CD1	PHE	1819	16.302	-43.780	28.653	1.00	10.46

ATOM	12118	CD2	PHE	1819	17.648	-45.576	29.494	1.00	11.28
ATOM	12119	CE1	PHE	1819	17.434	-42.980	28.540	1.00	10.02
ATOM	12120	CE2	PHE	1819	18.790	-44.782	29.384	1.00	12.19
ATOM	12121	CZ	PHE	1819	18.684	-43.484	28.903	1.00	10.00
ATOM	12122	C	PHE	1819	14.405	-45.848	26.877	1.00	12.26
ATOM	12123	O	PHE	1819	15.214	-45.404	26.057	1.00	11.06
ATOM	12124	N	ALA	1820	13.105	-45.572	26.850	1.00	11.30
ATOM	12125	CA	ALA	1820	12.525	-44.715	25.833	1.00	11.83
ATOM	12126	CB	ALA	1820	11.114	-45.203	25.470	1.00	10.93
ATOM	12127	C	ALA	1820	12.464	-43.256	26.262	1.00	11.52
ATOM	12128	O	ALA	1820	12.287	-42.945	27.441	1.00	13.43
ATOM	12129	N	THR	1821	12.598	-42.372	25.277	1.00	11.00
ATOM	12130	CA	THR	1821	12.552	-40.928	25.481	1.00	11.82
ATOM	12131	CB	THR	1821	13.973	-40.321	25.403	1.00	11.47
ATOM	12132	OG1	THR	1821	14.756	-40.809	26.505	1.00	15.36
ATOM	12133	CG2	THR	1821	13.913	-38.816	25.451	1.00	23.24
ATOM	12134	C	THR	1821	11.706	-40.398	24.331	1.00	9.33
ATOM	12135	O	THR	1821	11.554	-41.075	23.312	1.00	12.52
ATOM	12136	N	ILE	1822	11.150	-39.201	24.465	1.00	10.58
ATOM	12137	CA	ILE	1822	10.315	-38.690	23.385	1.00	9.32
ATOM	12138	CB	ILE	1822	8.892	-39.296	23.504	1.00	10.75
ATOM	12139	CG2	ILE	1822	8.162	-38.672	24.716	1.00	10.54
ATOM	12140	CG1	ILE	1822	8.102	-39.050	22.222	1.00	13.24
ATOM	12141	CD1	ILE	1822	6.801	-39.836	22.165	1.00	14.23
ATOM	12142	C	ILE	1822	10.237	-37.169	23.415	1.00	12.04
ATOM	12143	O	ILE	1822	10.473	-36.552	24.456	1.00	9.11
ATOM	12144	N	THR	1823	9.926	-36.565	22.269	1.00	10.88
ATOM	12145	CA	THR	1823	9.778	-35.119	22.212	1.00	12.73
ATOM	12146	CB	THR	1823	9.990	-34.570	20.766	1.00	11.54
ATOM	12147	OG1	THR	1823	9.000	-35.126	19.889	1.00	12.04
ATOM	12148	CG2	THR	1823	11.393	-34.936	20.259	1.00	14.24
ATOM	12149	C	THR	1823	8.359	-34.785	22.681	1.00	12.09
ATOM	12150	O	THR	1823	7.436	-35.591	22.546	1.00	11.41
ATOM	12151	N	ALA	1824	8.203	-33.599	23.257	1.00	10.84
ATOM	12152	CA	ALA	1824	6.912	-33.134	23.756	1.00	10.40
ATOM	12153	CB	ALA	1824	6.659	-33.673	25.173	1.00	9.05
ATOM	12154	C	ALA	1824	6.973	-31.604	23.776	1.00	10.44
ATOM	12155	O	ALA	1824	8.015	-31.023	24.087	1.00	9.73
ATOM	12156	N	TYR	1825	5.867	-30.947	23.445	1.00	9.09
ATOM	12157	CA	TYR	1825	5.864	-29.483	23.405	1.00	10.72
ATOM	12158	CB	TYR	1825	6.002	-28.995	21.960	1.00	9.65
ATOM	12159	CG	TYR	1825	7.028	-29.745	21.159	1.00	10.96
ATOM	12160	CD1	TYR	1825	6.640	-30.696	20.226	1.00	13.24
ATOM	12161	CE1	TYR	1825	7.578	-31.379	19.466	1.00	13.61
ATOM	12162	CD2	TYR	1825	8.389	-29.496	21.323	1.00	11.25
ATOM	12163	CE2	TYR	1825	9.341	-30.180	20.569	1.00	10.63
ATOM	12164	CZ	TYR	1825	8.919	-31.116	19.642	1.00	12.50
ATOM	12165	OH	TYR	1825	9.842	-31.782	18.876	1.00	13.92
ATOM	12166	C	TYR	1825	4.614	-28.854	23.994	1.00	11.54
ATOM	12167	O	TYR	1825	4.427	-27.642	23.906	1.00	12.75
ATOM	12168	N	ASP	1826	3.755	-29.666	24.592	1.00	9.86
ATOM	12169	CA	ASP	1826	2.532	-29.141	25.170	1.00	12.59
ATOM	12170	CB	ASP	1826	1.454	-29.020	24.084	1.00	10.93
ATOM	12171	CG	ASP	1826	1.095	-30.362	23.471	1.00	13.46
ATOM	12172	OD1	ASP	1826	0.357	-31.125	24.116	1.00	12.97
ATOM	12173	OD2	ASP	1826	1.569	-30.656	22.356	1.00	14.57
ATOM	12174	C	ASP	1826	2.038	-30.007	26.325	1.00	11.01
ATOM	12175	O	ASP	1826	2.516	-31.120	26.549	1.00	12.69
ATOM	12176	N	TYR	1827	1.077	-29.469	27.060	1.00	11.39
ATOM	12177	CA	TYR	1827	0.497	-30.145	28.212	1.00	11.45
ATOM	12178	CB	TYR	1827	-0.513	-29.212	28.879	1.00	12.27
ATOM	12179	CG	TYR	1827	-1.358	-29.886	29.937	1.00	12.69
ATOM	12180	CD1	TYR	1827	-0.912	-29.990	31.255	1.00	14.43
ATOM	12181	CE1	TYR	1827	-1.696	-30.593	32.234	1.00	15.64
ATOM	12182	CD2	TYR	1827	-2.610	-30.407	29.622	1.00	14.53
ATOM	12183	CE2	TYR	1827	-3.401	-31.015	30.593	1.00	17.16
ATOM	12184	CZ	TYR	1827	-2.937	-31.101	31.893	1.00	16.99
ATOM	12185	OH	TYR	1827	-3.714	-31.686	32.861	1.00	16.74
ATOM	12186	C	TYR	1827	-0.194	-31.483	27.921	1.00	11.79
ATOM	12187	O	TYR	1827	0.010	-32.474	28.632	1.00	10.69
ATOM	12188	N	SER	1828	-1.026	-31.506	26.887	1.00	9.98
ATOM	12189	CA	SER	1828	-1.779	-32.713	26.553	1.00	12.49
ATOM	12190	CB	SER	1828	-2.744	-32.415	25.407	1.00	11.71
ATOM	12191	OG	SER	1828	-3.657	-31.420	25.819	1.00	16.55
ATOM	12192	C	SER	1828	-0.940	-33.940	26.240	1.00	11.86
ATOM	12193	O	SER	1828	-1.210	-35.027	26.763	1.00	9.82
ATOM	12194	N	PHE	1829	0.075	-33.780	25.401	1.00	11.47

ATOM	12195	CA	PHE	1829	0.921	-34.918	25.082	1.00	11.15
ATOM	12196	CB	PHE	1829	1.675	-34.690	23.760	1.00	10.81
ATOM	12197	CG	PHE	1829	0.831	-34.948	22.535	1.00	10.15
ATOM	12198	CD1	PHE	1829	0.259	-33.893	21.827	1.00	10.05
ATOM	12199	CD2	PHE	1829	0.566	-36.256	22.120	1.00	9.31
ATOM	12200	CE1	PHE	1829	-0.570	-34.134	20.723	1.00	9.40
ATOM	12201	CE2	PHE	1829	-0.259	-36.512	21.022	1.00	10.09
ATOM	12202	CZ	PHE	1829	-0.831	-35.451	20.317	1.00	9.43
ATOM	12203	C	PHE	1829	1.882	-35.224	26.241	1.00	11.61
ATOM	12204	O	PHE	1829	2.161	-36.391	26.531	1.00	9.86
ATOM	12205	N	ALA	1830	2.366	-34.199	26.939	1.00	9.53
ATOM	12206	CA	ALA	1830	3.269	-34.475	28.057	1.00	11.06
ATOM	12207	CB	ALA	1830	3.810	-33.168	28.663	1.00	13.38
ATOM	12208	C	ALA	1830	2.535	-35.284	29.131	1.00	12.72
ATOM	12209	O	ALA	1830	3.116	-36.172	29.759	1.00	12.34
ATOM	12210	N	LYS	1831	1.260	-34.963	29.336	1.00	10.44
ATOM	12211	CA	LYS	1831	0.435	-35.645	30.324	1.00	12.92
ATOM	12212	CB	LYS	1831	-0.884	-34.886	30.502	1.00	15.79
ATOM	12213	CG	LYS	1831	-1.892	-35.560	31.418	1.00	19.79
ATOM	12214	CD	LYS	1831	-1.386	-35.636	32.837	1.00	26.44
ATOM	12215	CE	LYS	1831	-2.551	-35.751	33.817	1.00	30.84
ATOM	12216	NZ	LYS	1831	-3.543	-36.796	33.410	1.00	32.55
ATOM	12217	C	LYS	1831	0.151	-37.071	29.866	1.00	10.03
ATOM	12218	O	LYS	1831	0.202	-38.026	30.658	1.00	10.29
ATOM	12219	N	LEU	1832	-0.158	-37.211	28.582	1.00	9.47
ATOM	12220	CA	LEU	1832	-0.449	-38.529	28.017	1.00	10.13
ATOM	12221	CB	LEU	1832	-0.811	-38.397	26.532	1.00	9.08
ATOM	12222	CG	LEU	1832	-1.337	-39.651	25.819	1.00	7.77
ATOM	12223	CD1	LEU	1832	-2.165	-39.212	24.629	1.00	10.73
ATOM	12224	CD2	LEU	1832	-0.187	-40.548	25.370	1.00	8.84
ATOM	12225	C	LEU	1832	0.764	-39.434	28.195	1.00	11.17
ATOM	12226	O	LEU	1832	0.632	-40.583	28.619	1.00	10.67
ATOM	12227	N	PHE	1833	1.948	-38.907	27.888	1.00	9.31
ATOM	12228	CA	PHE	1833	3.175	-39.690	28.021	1.00	10.32
ATOM	12229	CB	PHE	1833	4.385	-38.928	27.453	1.00	12.77
ATOM	12230	CG	PHE	1833	4.253	-38.554	25.983	1.00	10.12
ATOM	12231	CD1	PHE	1833	3.502	-39.331	25.105	1.00	9.09
ATOM	12232	CD2	PHE	1833	4.898	-37.427	25.483	1.00	11.46
ATOM	12233	CE1	PHE	1833	3.393	-38.989	23.746	1.00	9.84
ATOM	12234	CE2	PHE	1833	4.798	-37.074	24.125	1.00	9.94
ATOM	12235	CZ	PHE	1833	4.041	-37.860	23.254	1.00	8.51
ATOM	12236	C	PHE	1833	3.438	-40.043	29.486	1.00	11.08
ATOM	12237	O	PHE	1833	3.687	-41.204	29.810	1.00	11.34
ATOM	12238	N	ALA	1834	3.392	-39.045	30.369	1.00	11.64
ATOM	12239	CA	ALA	1834	3.631	-39.285	31.792	1.00	12.54
ATOM	12240	CB	ALA	1834	3.480	-37.973	32.590	1.00	15.99
ATOM	12241	C	ALA	1834	2.692	-40.349	32.367	1.00	14.96
ATOM	12242	O	ALA	1834	3.120	-41.206	33.150	1.00	13.96
ATOM	12243	N	ASP	1835	1.419	-40.313	31.981	1.00	14.27
ATOM	12244	CA	ASP	1835	0.468	-41.290	32.501	1.00	16.50
ATOM	12245	CB	ASP	1835	-0.968	-40.917	32.133	1.00	20.28
ATOM	12246	CG	ASP	1835	-1.457	-39.671	32.850	1.00	20.37
ATOM	12247	OD1	ASP	1835	-0.859	-39.275	33.875	1.00	22.29
ATOM	12248	OD2	ASP	1835	-2.457	-39.096	32.388	1.00	25.23
ATOM	12249	C	ASP	1835	0.734	-42.723	32.048	1.00	16.31
ATOM	12250	O	ASP	1835	0.176	-43.671	32.612	1.00	14.66
ATOM	12251	N	GLU	1836	1.571	-42.891	31.028	1.00	15.72
ATOM	12252	CA	GLU	1836	1.905	-44.234	30.557	1.00	14.86
ATOM	12253	CB	GLU	1836	1.966	-44.289	29.024	1.00	13.08
ATOM	12254	CG	GLU	1836	0.634	-44.045	28.334	1.00	13.80
ATOM	12255	CD	GLU	1836	-0.468	-44.917	28.905	1.00	18.45
ATOM	12256	OE1	GLU	1836	-0.221	-46.126	29.116	1.00	18.78
ATOM	12257	OE2	GLU	1836	-1.578	-44.395	29.144	1.00	18.26
ATOM	12258	C	GLU	1836	3.246	-44.688	31.123	1.00	15.46
ATOM	12259	O	GLU	1836	3.632	-45.844	30.970	1.00	16.15
ATOM	12260	N	GLY	1837	3.962	-43.770	31.762	1.00	13.82
ATOM	12261	CA	GLY	1837	5.252	-44.112	32.336	1.00	14.92
ATOM	12262	C	GLY	1837	6.442	-43.693	31.494	1.00	14.40
ATOM	12263	O	GLY	1837	7.567	-44.113	31.761	1.00	14.75
ATOM	12264	N	LEU	1838	6.197	-42.879	30.466	1.00	14.07
ATOM	12265	CA	LEU	1838	7.263	-42.384	29.588	1.00	16.57
ATOM	12266	CB	LEU	1838	6.703	-42.123	28.188	1.00	18.28
ATOM	12267	CG	LEU	1838	7.637	-42.371	27.005	1.00	21.26
ATOM	12268	CD1	LEU	1838	6.977	-41.842	25.744	1.00	18.89
ATOM	12269	CD2	LEU	1838	8.983	-41.721	27.225	1.00	20.44
ATOM	12270	C	LEU	1838	7.642	-41.073	30.267	1.00	17.17
ATOM	12271	O	LEU	1838	7.054	-40.024	29.987	1.00	16.93



ATOM	12272	N	ASN	1839	8.632	-41.160	31.152	1.00	19.21
ATOM	12273	CA	ASN	1839	9.066	-40.046	31.981	1.00	17.01
ATOM	12274	CB	ASN	1839	9.234	-40.551	33.423	1.00	20.88
ATOM	12275	CG	ASN	1839	8.011	-41.318	33.927	1.00	24.27
ATOM	12276	OD1	ASN	1839	6.867	-40.885	33.742	1.00	27.75
ATOM	12277	ND2	ASN	1839	8.248	-42.452	34.577	1.00	26.34
ATOM	12278	C	ASN	1839	10.317	-39.276	31.567	1.00	15.58
ATOM	12279	O	ASN	1839	10.956	-38.627	32.397	1.00	15.41
ATOM	12280	N	VAL	1840	10.684	-39.347	30.296	1.00	14.55
ATOM	12281	CA	VAL	1840	11.841	-38.607	29.830	1.00	13.23
ATOM	12282	CB	VAL	1840	13.027	-39.528	29.518	1.00	13.11
ATOM	12283	CG1	VAL	1840	14.221	-38.694	29.118	1.00	13.44
ATOM	12284	CG2	VAL	1840	13.348	-40.392	30.748	1.00	16.08
ATOM	12285	C	VAL	1840	11.409	-37.884	28.573	1.00	12.06
ATOM	12286	O	VAL	1840	11.116	-38.505	27.547	1.00	10.12
ATOM	12287	N	MET	1841	11.367	-36.562	28.663	1.00	10.19
ATOM	12288	CA	MET	1841	10.909	-35.758	27.548	1.00	10.11
ATOM	12289	CB	MET	1841	9.522	-35.193	27.873	1.00	12.54
ATOM	12290	CG	MET	1841	8.452	-36.273	27.916	1.00	15.69
ATOM	12291	SD	MET	1841	6.923	-35.649	28.511	1.00	15.98
ATOM	12292	CE	MET	1841	6.633	-36.759	29.903	1.00	13.37
ATOM	12293	C	MET	1841	11.864	-34.647	27.150	1.00	10.13
ATOM	12294	O	MET	1841	12.468	-33.969	27.992	1.00	9.95
ATOM	12295	N	LEU	1842	11.959	-34.456	25.839	1.00	10.43
ATOM	12296	CA	LEU	1842	12.838	-33.454	25.264	1.00	11.43
ATOM	12297	CB	LEU	1842	13.804	-34.123	24.283	1.00	14.79
ATOM	12298	CG	LEU	1842	14.979	-33.359	23.651	1.00	20.32
ATOM	12299	CD1	LEU	1842	14.650	-33.033	22.220	1.00	23.15
ATOM	12300	CD2	LEU	1842	15.339	-32.102	24.428	1.00	19.90
ATOM	12301	C	LEU	1842	12.060	-32.349	24.566	1.00	11.63
ATOM	12302	O	LEU	1842	11.246	-32.610	23.687	1.00	9.65
ATOM	12303	N	VAL	1843	12.299	-31.115	25.001	1.00	11.18
ATOM	12304	CA	VAL	1843	11.670	-29.947	24.395	1.00	12.10
ATOM	12305	CB	VAL	1843	11.215	-28.917	25.454	1.00	12.21
ATOM	12306	CG1	VAL	1843	10.567	-27.708	24.763	1.00	10.58
ATOM	12307	CG2	VAL	1843	10.212	-29.564	26.405	1.00	15.96
ATOM	12308	C	VAL	1843	12.800	-29.383	23.548	1.00	13.23
ATOM	12309	O	VAL	1843	13.601	-28.580	24.019	1.00	13.64
ATOM	12310	N	GLY	1844	12.877	-29.837	22.302	1.00	14.75
ATOM	12311	CA	GLY	1844	13.950	-29.406	21.424	1.00	15.77
ATOM	12312	C	GLY	1844	13.563	-28.393	20.375	1.00	13.72
ATOM	12313	O	GLY	1844	12.376	-28.167	20.127	1.00	11.89
ATOM	12314	N	ASP	1845	14.559	-27.781	19.742	1.00	14.76
ATOM	12315	CA	ASP	1845	14.246	-26.776	18.732	1.00	14.86
ATOM	12316	CB	ASP	1845	15.485	-25.952	18.342	1.00	16.86
ATOM	12317	CG	ASP	1845	16.649	-26.794	17.857	1.00	17.94
ATOM	12318	OD1	ASP	1845	16.470	-27.985	17.559	1.00	16.65
ATOM	12319	OD2	ASP	1845	17.757	-26.227	17.768	1.00	19.70
ATOM	12320	C	ASP	1845	13.567	-27.368	17.506	1.00	14.35
ATOM	12321	O	ASP	1845	13.185	-26.641	16.588	1.00	14.70
ATOM	12322	N	SER	1846	13.401	-28.689	17.493	1.00	14.18
ATOM	12323	CA	SER	1846	12.699	-29.334	16.385	1.00	12.45
ATOM	12324	CB	SER	1846	12.615	-30.848	16.607	1.00	14.08
ATOM	12325	OG	SER	1846	12.079	-31.168	17.888	1.00	16.33
ATOM	12326	C	SER	1846	11.291	-28.735	16.337	1.00	12.85
ATOM	12327	O	SER	1846	10.600	-28.821	15.316	1.00	13.17
ATOM	12328	N	LEU	1847	10.858	-28.146	17.451	1.00	10.11
ATOM	12329	CA	LEU	1847	9.532	-27.517	17.503	1.00	9.80
ATOM	12330	CB	LEU	1847	9.242	-26.969	18.911	1.00	8.90
ATOM	12331	CG	LEU	1847	10.043	-25.770	19.432	1.00	9.46
ATOM	12332	CD1	LEU	1847	9.440	-24.474	18.904	1.00	6.94
ATOM	12333	CD2	LEU	1847	10.039	-25.763	20.968	1.00	10.36
ATOM	12334	C	LEU	1847	9.436	-26.391	16.466	1.00	8.37
ATOM	12335	O	LEU	1847	8.341	-26.001	16.051	1.00	9.72
ATOM	12336	N	GLY	1848	10.585	-25.861	16.060	1.00	7.80
ATOM	12337	CA	GLY	1848	10.594	-24.804	15.061	1.00	9.90
ATOM	12338	C	GLY	1848	9.921	-25.270	13.783	1.00	12.28
ATOM	12339	O	GLY	1848	9.277	-24.495	13.077	1.00	11.95
ATOM	12340	N	MET	1849	10.048	-26.556	13.485	1.00	12.66
ATOM	12341	CA	MET	1849	9.446	-27.088	12.273	1.00	14.41
ATOM	12342	CB	MET	1849	10.406	-28.092	11.641	1.00	18.14
ATOM	12343	CG	MET	1849	11.766	-27.472	11.327	1.00	19.85
ATOM	12344	SD	MET	1849	12.956	-28.634	10.655	1.00	24.17
ATOM	12345	CE	MET	1849	12.389	-28.777	8.968	1.00	24.76
ATOM	12346	C	MET	1849	8.093	-27.724	12.538	1.00	12.05
ATOM	12347	O	MET	1849	7.097	-27.396	11.893	1.00	13.07
ATOM	12348	N	THR	1850	8.052	-28.613	13.518	1.00	13.89

ATOM	12349	CA	THR	1850	6.826	-29.321	13.852	1.00	13.07
ATOM	12350	CB	THR	1850	7.165	-30.523	14.756	1.00	16.49
ATOM	12351	OG1	THR	1850	6.003	-31.332	14.935	1.00	23.16
ATOM	12352	CG2	THR	1850	7.657	-30.044	16.106	1.00	13.78
ATOM	12353	C	THR	1850	5.722	-28.477	14.502	1.00	13.45
ATOM	12354	O	THR	1850	4.529	-28.704	14.272	1.00	14.06
ATOM	12355	N	VAL	1851	6.101	-27.505	15.318	1.00	9.38
ATOM	12356	CA	VAL	1851	5.095	-26.662	15.963	1.00	10.18
ATOM	12357	CB	VAL	1851	5.447	-26.405	17.456	1.00	9.38
ATOM	12358	CG1	VAL	1851	4.436	-25.440	18.073	1.00	9.31
ATOM	12359	CG2	VAL	1851	5.440	-27.719	18.219	1.00	9.77
ATOM	12360	C	VAL	1851	4.914	-25.316	15.262	1.00	10.37
ATOM	12361	O	VAL	1851	3.795	-24.940	14.935	1.00	10.77
ATOM	12362	N	GLN	1852	6.017	-24.604	15.025	1.00	9.98
ATOM	12363	CA	GLN	1852	5.959	-23.283	14.405	1.00	10.14
ATOM	12364	CB	GLN	1852	7.198	-22.486	14.801	1.00	10.92
ATOM	12365	CG	GLN	1852	7.379	-22.402	16.313	1.00	11.64
ATOM	12366	CD	GLN	1852	8.590	-21.591	16.702	1.00	11.56
ATOM	12367	OE1	GLN	1852	9.567	-21.530	15.963	1.00	11.26
ATOM	12368	NE2	GLN	1852	8.545	-20.990	17.882	1.00	8.34
ATOM	12369	C	GLN	1852	5.804	-23.277	12.891	1.00	11.52
ATOM	12370	O	GLN	1852	5.301	-22.314	12.315	1.00	10.45
ATOM	12371	N	GLY	1853	6.257	-24.340	12.239	1.00	9.89
ATOM	12372	CA	GLY	1853	6.119	-24.422	10.793	1.00	10.59
ATOM	12373	C	GLY	1853	7.217	-23.823	9.941	1.00	11.71
ATOM	12374	O	GLY	1853	6.991	-23.534	8.766	1.00	12.91
ATOM	12375	N	HIS	1854	8.395	-23.618	10.522	1.00	11.61
ATOM	12376	CA	HIS	1854	9.527	-23.076	9.768	1.00	14.51
ATOM	12377	CB	HIS	1854	10.534	-22.413	10.704	1.00	12.24
ATOM	12378	CG	HIS	1854	9.987	-21.230	11.432	1.00	13.00
ATOM	12379	CD2	HIS	1854	9.726	-21.033	12.747	1.00	11.78
ATOM	12380	ND1	HIS	1854	9.636	-20.060	10.792	1.00	11.06
ATOM	12381	CE1	HIS	1854	9.186	-19.193	11.682	1.00	13.39
ATOM	12382	NE2	HIS	1854	9.231	-19.758	12.875	1.00	12.54
ATOM	12383	C	HIS	1854	10.210	-24.225	9.037	1.00	15.33
ATOM	12384	O	HIS	1854	10.034	-25.389	9.395	1.00	14.84
ATOM	12385	N	ASP	1855	11.005	-23.888	8.028	1.00	18.03
ATOM	12386	CA	ASP	1855	11.718	-24.871	7.224	1.00	20.65
ATOM	12387	CB	ASP	1855	12.081	-24.247	5.871	1.00	26.04
ATOM	12388	CG	ASP	1855	13.150	-23.172	5.999	1.00	27.76
ATOM	12389	OD1	ASP	1855	14.313	-23.526	6.253	1.00	35.96
ATOM	12390	OD2	ASP	1855	12.827	-21.977	5.864	1.00	34.52
ATOM	12391	C	ASP	1855	12.993	-25.347	7.928	1.00	19.44
ATOM	12392	O	ASP	1855	13.645	-26.288	7.477	1.00	17.58
ATOM	12393	N	SER	1856	13.352	-24.685	9.026	1.00	17.83
ATOM	12394	CA	SER	1856	14.540	-25.050	9.794	1.00	15.27
ATOM	12395	CB	SER	1856	15.762	-24.257	9.323	1.00	16.75
ATOM	12396	OG	SER	1856	15.761	-22.953	9.884	1.00	13.49
ATOM	12397	C	SER	1856	14.289	-24.735	11.260	1.00	14.46
ATOM	12398	O	SER	1856	13.259	-24.163	11.613	1.00	13.21
ATOM	12399	N	THR	1857	15.244	-25.085	12.111	1.00	15.25
ATOM	12400	CA	THR	1857	15.094	-24.823	13.536	1.00	14.62
ATOM	12401	CB	THR	1857	15.712	-25.947	14.392	1.00	15.79
ATOM	12402	OG1	THR	1857	17.125	-25.993	14.169	1.00	14.91
ATOM	12403	CG2	THR	1857	15.106	-27.286	14.042	1.00	15.97
ATOM	12404	C	THR	1857	15.759	-23.516	13.964	1.00	12.81
ATOM	12405	O	THR	1857	15.666	-23.145	15.128	1.00	13.80
ATOM	12406	N	LEU	1858	16.425	-22.815	13.047	1.00	12.35
ATOM	12407	CA	LEU	1858	17.119	-21.582	13.434	1.00	12.54
ATOM	12408	CB	LEU	1858	17.920	-21.013	12.252	1.00	12.41
ATOM	12409	CG	LEU	1858	19.243	-21.743	11.959	1.00	18.92
ATOM	12410	CD1	LEU	1858	18.942	-23.123	11.376	1.00	18.27
ATOM	12411	CD2	LEU	1858	20.079	-20.929	10.975	1.00	16.42
ATOM	12412	C	LEU	1858	16.269	-20.465	14.049	1.00	12.00
ATOM	12413	O	LEU	1858	16.729	-19.749	14.943	1.00	12.79
ATOM	12414	N	PRO	1859	15.021	-20.296	13.587	1.00	11.97
ATOM	12415	CD	PRO	1859	14.411	-20.851	12.366	1.00	15.36
ATOM	12416	CA	PRO	1859	14.190	-19.228	14.159	1.00	12.87
ATOM	12417	CB	PRO	1859	12.981	-19.178	13.222	1.00	14.66
ATOM	12418	CG	PRO	1859	12.969	-20.528	12.567	1.00	20.26
ATOM	12419	C	PRO	1859	13.789	-19.393	15.623	1.00	12.26
ATOM	12420	O	PRO	1859	13.431	-18.418	16.287	1.00	11.90
ATOM	12421	N	VAL	1860	13.853	-20.620	16.125	1.00	9.89
ATOM	12422	CA	VAL	1860	13.487	-20.900	17.514	1.00	9.80
ATOM	12423	CB	VAL	1860	13.650	-22.397	17.824	1.00	9.99
ATOM	12424	CG1	VAL	1860	13.225	-22.674	19.258	1.00	10.58
ATOM	12425	CG2	VAL	1860	12.816	-23.222	16.855	1.00	10.13

ATOM	12426	C	VAL	1860	14.343	-20.116	18.507	1.00	9.52
ATOM	12427	O	VAL	1860	15.570	-20.165	18.449	1.00	9.57
ATOM	12428	N	THR	1861	13.691	-19.419	19.435	1.00	9.74
ATOM	12429	CA	THR	1861	14.412	-18.633	20.432	1.00	12.01
ATOM	12430	CB	THR	1861	13.845	-17.199	20.509	1.00	15.97
ATOM	12431	OG1	THR	1861	13.816	-16.623	19.192	1.00	20.58
ATOM	12432	CG2	THR	1861	14.722	-16.325	21.387	1.00	23.39
ATOM	12433	C	THR	1861	14.367	-19.270	21.822	1.00	11.32
ATOM	12434	O	THR	1861	13.603	-20.199	22.072	1.00	9.35
ATOM	12435	N	VAL	1862	15.214	-18.773	22.717	1.00	11.39
ATOM	12436	CA	VAL	1862	15.251	-19.275	24.079	1.00	11.60
ATOM	12437	CB	VAL	1862	16.309	-18.524	24.920	1.00	11.99
ATOM	12438	CG1	VAL	1862	16.238	-18.982	26.367	1.00	13.48
ATOM	12439	CG2	VAL	1862	17.715	-18.775	24.349	1.00	13.06
ATOM	12440	C	VAL	1862	13.864	-19.080	24.695	1.00	11.31
ATOM	12441	O	VAL	1862	13.366	-19.955	25.398	1.00	11.62
ATOM	12442	N	ALA	1863	13.227	-17.941	24.421	1.00	10.93
ATOM	12443	CA	ALA	1863	11.893	-17.697	24.966	1.00	10.99
ATOM	12444	CB	ALA	1863	11.380	-16.336	24.535	1.00	13.54
ATOM	12445	C	ALA	1863	10.925	-18.773	24.499	1.00	10.75
ATOM	12446	O	ALA	1863	10.087	-19.240	25.278	1.00	8.92
ATOM	12447	N	ASP	1864	11.013	-19.141	23.221	1.00	8.92
ATOM	12448	CA	ASP	1864	10.135	-20.191	22.669	1.00	9.84
ATOM	12449	CB	ASP	1864	10.452	-20.488	21.191	1.00	9.14
ATOM	12450	CG	ASP	1864	10.169	-19.322	20.263	1.00	9.13
ATOM	12451	OD1	ASP	1864	9.190	-18.581	20.490	1.00	11.77
ATOM	12452	OD2	ASP	1864	10.918	-19.167	19.272	1.00	10.86
ATOM	12453	C	ASP	1864	10.328	-21.487	23.456	1.00	9.58
ATOM	12454	O	ASP	1864	9.358	-22.134	23.861	1.00	8.41
ATOM	12455	N	ILE	1865	11.583	-21.876	23.660	1.00	8.67
ATOM	12456	CA	ILE	1865	11.879	-23.111	24.398	1.00	9.31
ATOM	12457	CB	ILE	1865	13.409	-23.355	24.520	1.00	9.33
ATOM	12458	CG2	ILE	1865	13.668	-24.518	25.470	1.00	11.52
ATOM	12459	CG1	ILE	1865	14.035	-23.606	23.134	1.00	9.79
ATOM	12460	CD1	ILE	1865	13.509	-24.855	22.397	1.00	8.07
ATOM	12461	C	ILE	1865	11.285	-23.036	25.808	1.00	9.25
ATOM	12462	O	ILE	1865	10.661	-23.991	26.283	1.00	9.30
ATOM	12463	N	ALA	1866	11.492	-21.906	26.483	1.00	7.42
ATOM	12464	CA	ALA	1866	10.969	-21.716	27.843	1.00	5.92
ATOM	12465	CB	ALA	1866	11.352	-20.335	28.373	1.00	6.24
ATOM	12466	C	ALA	1866	9.452	-21.879	27.895	1.00	8.68
ATOM	12467	O	ALA	1866	8.904	-22.480	28.826	1.00	6.71
ATOM	12468	N	TYR	1867	8.768	-21.319	26.903	1.00	7.88
ATOM	12469	CA	TYR	1867	7.307	-21.421	26.817	1.00	9.45
ATOM	12470	CB	TYR	1867	6.799	-20.700	25.550	1.00	8.36
ATOM	12471	CG	TYR	1867	5.304	-20.839	25.314	1.00	8.40
ATOM	12472	CD1	TYR	1867	4.384	-20.257	26.184	1.00	11.09
ATOM	12473	CE1	TYR	1867	3.010	-20.316	25.930	1.00	11.97
ATOM	12474	CD2	TYR	1867	4.812	-21.496	24.187	1.00	9.92
ATOM	12475	CE2	TYR	1867	3.440	-21.561	23.925	1.00	9.81
ATOM	12476	CZ	TYR	1867	2.550	-20.968	24.791	1.00	9.83
ATOM	12477	OH	TYR	1867	1.204	-20.972	24.502	1.00	13.41
ATOM	12478	C	TYR	1867	6.844	-22.874	26.773	1.00	9.90
ATOM	12479	O	TYR	1867	5.984	-23.308	27.556	1.00	8.93
ATOM	12480	N	HIS	1868	7.413	-23.629	25.843	1.00	7.87
ATOM	12481	CA	HIS	1868	7.025	-25.026	25.691	1.00	10.27
ATOM	12482	CB	HIS	1868	7.557	-25.543	24.349	1.00	9.57
ATOM	12483	CG	HIS	1868	6.843	-24.939	23.174	1.00	9.11
ATOM	12484	CD2	HIS	1868	7.194	-23.938	22.330	1.00	9.03
ATOM	12485	ND1	HIS	1868	5.543	-25.267	22.852	1.00	8.93
ATOM	12486	CE1	HIS	1868	5.120	-24.490	21.870	1.00	8.96
ATOM	12487	NE2	HIS	1868	6.102	-23.674	21.534	1.00	8.75
ATOM	12488	C	HIS	1868	7.483	-25.860	26.874	1.00	10.42
ATOM	12489	O	HIS	1868	6.800	-26.804	27.266	1.00	9.01
ATOM	12490	N	THR	1869	8.611	-25.481	27.469	1.00	10.19
ATOM	12491	CA	THR	1869	9.133	-26.197	28.635	1.00	10.01
ATOM	12492	CB	THR	1869	10.520	-25.639	29.032	1.00	11.08
ATOM	12493	OG1	THR	1869	11.474	-25.995	28.022	1.00	11.79
ATOM	12494	CG2	THR	1869	10.984	-26.205	30.378	1.00	10.61
ATOM	12495	C	THR	1869	8.156	-26.077	29.809	1.00	10.50
ATOM	12496	O	THR	1869	7.896	-27.056	30.501	1.00	9.02
ATOM	12497	N	ALA	1870	7.607	-24.884	30.036	1.00	9.46
ATOM	12498	CA	ALA	1870	6.673	-24.719	31.146	1.00	10.75
ATOM	12499	CB	ALA	1870	6.301	-23.242	31.331	1.00	11.04
ATOM	12500	C	ALA	1870	5.416	-25.553	30.909	1.00	10.58
ATOM	12501	O	ALA	1870	4.886	-26.180	31.831	1.00	11.31
ATOM	12502	N	ALA	1871	4.939	-25.568	29.672	1.00	9.74

ATOM	12503	CA	ALA	1871	3.738	-26.332	29.347	1.00	10.34
ATOM	12504	CB	ALA	1871	3.323	-26.056	27.907	1.00	9.64
ATOM	12505	C	ALA	1871	3.965	-27.828	29.559	1.00	10.87
ATOM	12506	O	ALA	1871	3.104	-28.514	30.116	1.00	11.14
ATOM	12507	N	VAL	1872	5.119	-28.333	29.126	1.00	8.50
ATOM	12508	CA	VAL	1872	5.418	-29.754	29.300	1.00	9.80
ATOM	12509	CB	VAL	1872	6.724	-30.161	28.569	1.00	8.60
ATOM	12510	CG1	VAL	1872	7.169	-31.563	29.019	1.00	5.70
ATOM	12511	CG2	VAL	1872	6.483	-30.174	27.061	1.00	8.96
ATOM	12512	C	VAL	1872	5.518	-30.078	30.788	1.00	10.76
ATOM	12513	O	VAL	1872	4.979	-31.085	31.245	1.00	11.38
ATOM	12514	N	ARG	1873	6.192	-29.221	31.549	1.00	10.87
ATOM	12515	CA	ARG	1873	6.311	-29.450	32.980	1.00	9.93
ATOM	12516	CB	ARG	1873	7.153	-28.348	33.647	1.00	7.52
ATOM	12517	CG	ARG	1873	7.288	-28.505	35.177	1.00	10.26
ATOM	12518	CD	ARG	1873	7.857	-29.878	35.567	1.00	12.74
ATOM	12519	NE	ARG	1873	9.289	-30.011	35.288	1.00	15.69
ATOM	12520	CZ	ARG	1873	9.939	-31.172	35.250	1.00	12.78
ATOM	12521	NH1	ARG	1873	9.290	-32.304	35.461	1.00	13.43
ATOM	12522	NH2	ARG	1873	11.242	-31.205	35.025	1.00	12.86
ATOM	12523	C	ARG	1873	4.924	-29.522	33.645	1.00	10.69
ATOM	12524	O	ARG	1873	4.726	-30.310	34.562	1.00	12.04
ATOM	12525	N	ARG	1874	3.968	-28.713	33.190	1.00	9.73
ATOM	12526	CA	ARG	1874	2.631	-28.750	33.774	1.00	10.96
ATOM	12527	CB	ARG	1874	1.736	-27.640	33.206	1.00	12.21
ATOM	12528	CG	ARG	1874	2.285	-26.245	33.444	1.00	15.36
ATOM	12529	CD	ARG	1874	1.230	-25.139	33.364	1.00	17.99
ATOM	12530	NE	ARG	1874	1.868	-23.843	33.592	1.00	15.73
ATOM	12531	CZ	ARG	1874	2.419	-23.101	32.637	1.00	19.11
ATOM	12532	NH1	ARG	1874	2.397	-23.517	31.373	1.00	14.81
ATOM	12533	NH2	ARG	1874	3.027	-21.961	32.955	1.00	17.47
ATOM	12534	C	ARG	1874	1.970	-30.110	33.546	1.00	11.41
ATOM	12535	O	ARG	1874	1.273	-30.630	34.424	1.00	14.88
ATOM	12536	N	GLY	1875	2.200	-30.696	32.380	1.00	11.22
ATOM	12537	CA	GLY	1875	1.606	-31.990	32.077	1.00	10.19
ATOM	12538	C	GLY	1875	2.323	-33.162	32.720	1.00	10.02
ATOM	12539	O	GLY	1875	1.708	-34.182	33.021	1.00	9.60
ATOM	12540	N	ALA	1876	3.627	-33.012	32.935	1.00	11.21
ATOM	12541	CA	ALA	1876	4.455	-34.071	33.527	1.00	11.50
ATOM	12542	CB	ALA	1876	5.309	-34.718	32.430	1.00	14.27
ATOM	12543	C	ALA	1876	5.350	-33.513	34.633	1.00	12.82
ATOM	12544	O	ALA	1876	6.560	-33.374	34.453	1.00	11.92
ATOM	12545	N	PRO	1877	4.771	-33.210	35.806	1.00	14.04
ATOM	12546	CD	PRO	1877	3.375	-33.476	36.216	1.00	14.97
ATOM	12547	CA	PRO	1877	5.554	-32.657	36.920	1.00	15.62
ATOM	12548	CB	PRO	1877	4.491	-32.375	37.984	1.00	15.70
ATOM	12549	CG	PRO	1877	3.469	-33.421	37.736	1.00	18.20
ATOM	12550	C	PRO	1877	6.699	-33.510	37.462	1.00	16.14
ATOM	12551	O	PRO	1877	7.589	-32.992	38.132	1.00	18.76
ATOM	12552	N	ASN	1878	6.686	-34.801	37.146	1.00	15.89
ATOM	12553	CA	ASN	1878	7.709	-35.718	37.638	1.00	17.91
ATOM	12554	CB	ASN	1878	7.038	-36.936	38.288	1.00	22.40
ATOM	12555	CG	ASN	1878	6.081	-36.552	39.400	1.00	25.24
ATOM	12556	OD1	ASN	1878	6.463	-35.889	40.359	1.00	29.66
ATOM	12557	ND2	ASN	1878	4.824	-36.974	39.275	1.00	28.39
ATOM	12558	C	ASN	1878	8.710	-36.209	36.595	1.00	17.02
ATOM	12559	O	ASN	1878	9.604	-36.986	36.919	1.00	16.69
ATOM	12560	N	CYS	1879	8.578	-35.763	35.349	1.00	15.26
ATOM	12561	CA	CYS	1879	9.487	-36.238	34.309	1.00	13.68
ATOM	12562	CB	CYS	1879	8.890	-35.991	32.917	1.00	14.20
ATOM	12563	SG	CYS	1879	9.037	-34.260	32.286	1.00	16.39
ATOM	12564	C	CYS	1879	10.865	-35.596	34.365	1.00	13.72
ATOM	12565	O	CYS	1879	11.085	-34.604	35.062	1.00	13.75
ATOM	12566	N	LEU	1880	11.802	-36.213	33.658	1.00	13.56
ATOM	12567	CA	LEU	1880	13.130	-35.660	33.540	1.00	13.22
ATOM	12568	CB	LEU	1880	14.185	-36.740	33.317	1.00	12.70
ATOM	12569	CG	LEU	1880	15.583	-36.162	33.044	1.00	12.13
ATOM	12570	CD1	LEU	1880	16.056	-35.315	34.242	1.00	14.50
ATOM	12571	CD2	LEU	1880	16.561	-37.299	32.782	1.00	15.41
ATOM	12572	C	LEU	1880	12.925	-34.860	32.259	1.00	11.47
ATOM	12573	O	LEU	1880	12.573	-35.430	31.231	1.00	12.83
ATOM	12574	N	LEU	1881	13.124	-33.546	32.324	1.00	8.79
ATOM	12575	CA	LEU	1881	12.881	-32.705	31.166	1.00	10.82
ATOM	12576	CB	LEU	1881	11.882	-31.600	31.534	1.00	11.46
ATOM	12577	CG	LEU	1881	11.152	-30.776	30.459	1.00	14.79
ATOM	12578	CD1	LEU	1881	10.169	-29.889	31.176	1.00	14.22
ATOM	12579	CD2	LEU	1881	12.096	-29.933	29.599	1.00	17.18

ATOM	12580	C	LEU	1881	14.140	-32.077	30.601	1.00	11.03
ATOM	12581	O	LEU	1881	14.802	-31.293	31.271	1.00	13.13
ATOM	12582	N	LEU	1882	14.460	-32.434	29.362	1.00	10.50
ATOM	12583	CA	LEU	1882	15.622	-31.885	28.698	1.00	11.79
ATOM	12584	CB	LEU	1882	16.333	-32.952	27.868	1.00	11.43
ATOM	12585	CG	LEU	1882	17.203	-33.973	28.607	1.00	15.97
ATOM	12586	CD1	LEU	1882	16.363	-34.799	29.575	1.00	17.09
ATOM	12587	CD2	LEU	1882	17.882	-34.878	27.577	1.00	16.23
ATOM	12588	C	LEU	1882	15.146	-30.767	27.787	1.00	13.92
ATOM	12589	O	LEU	1882	14.172	-30.926	27.051	1.00	17.46
ATOM	12590	N	ALA	1883	15.808	-29.623	27.852	1.00	11.32
ATOM	12591	CA	ALA	1883	15.426	-28.520	26.990	1.00	12.45
ATOM	12592	CB	ALA	1883	14.960	-27.342	27.824	1.00	12.10
ATOM	12593	C	ALA	1883	16.624	-28.132	26.144	1.00	11.52
ATOM	12594	O	ALA	1883	17.748	-28.030	26.639	1.00	10.54
ATOM	12595	N	ASP	1884	16.384	-27.941	24.853	1.00	12.57
ATOM	12596	CA	ASP	1884	17.447	-27.533	23.935	1.00	12.76
ATOM	12597	CB	ASP	1884	16.981	-27.649	22.477	1.00	13.52
ATOM	12598	CG	ASP	1884	17.351	-28.961	21.828	1.00	15.04
ATOM	12599	OD1	ASP	1884	17.887	-29.851	22.513	1.00	16.51
ATOM	12600	OD2	ASP	1884	17.098	-29.083	20.610	1.00	14.48
ATOM	12601	C	ASP	1884	17.785	-26.069	24.139	1.00	14.66
ATOM	12602	O	ASP	1884	16.934	-25.277	24.550	1.00	13.13
ATOM	12603	N	LEU	1885	19.040	-25.719	23.880	1.00	12.80
ATOM	12604	CA	LEU	1885	19.449	-24.318	23.862	1.00	12.01
ATOM	12605	CB	LEU	1885	20.860	-24.097	24.411	1.00	11.51
ATOM	12606	CG	LEU	1885	20.951	-24.044	25.932	1.00	13.75
ATOM	12607	CD1	LEU	1885	22.335	-23.553	26.373	1.00	14.19
ATOM	12608	CD2	LEU	1885	19.862	-23.123	26.460	1.00	15.95
ATOM	12609	C	LEU	1885	19.472	-24.182	22.340	1.00	10.80
ATOM	12610	O	LEU	1885	20.170	-24.932	21.653	1.00	11.71
ATOM	12611	N	PRO	1886	18.696	-23.245	21.793	1.00	10.45
ATOM	12612	CD	PRO	1886	17.852	-22.290	22.538	1.00	10.25
ATOM	12613	CA	PRO	1886	18.606	-23.014	20.350	1.00	11.23
ATOM	12614	CB	PRO	1886	17.356	-22.158	20.234	1.00	11.55
ATOM	12615	CG	PRO	1886	17.457	-21.296	21.474	1.00	11.59
ATOM	12616	C	PRO	1886	19.819	-22.372	19.670	1.00	11.51
ATOM	12617	O	PRO	1886	20.825	-22.065	20.314	1.00	13.04
ATOM	12618	N	PHE	1887	19.692	-22.178	18.358	1.00	9.35
ATOM	12619	CA	PHE	1887	20.723	-21.578	17.516	1.00	10.68
ATOM	12620	CB	PHE	1887	20.125	-21.260	16.136	1.00	11.05
ATOM	12621	CG	PHE	1887	20.992	-20.370	15.277	1.00	12.47
ATOM	12622	CD1	PHE	1887	22.251	-20.793	14.856	1.00	15.73
ATOM	12623	CD2	PHE	1887	20.546	-19.110	14.890	1.00	14.62
ATOM	12624	CE1	PHE	1887	23.058	-19.975	14.057	1.00	15.72
ATOM	12625	CE2	PHE	1887	21.340	-18.276	14.092	1.00	13.51
ATOM	12626	CZ	PHE	1887	22.598	-18.717	13.679	1.00	15.84
ATOM	12627	C	PHE	1887	21.290	-20.311	18.153	1.00	10.86
ATOM	12628	O	PHE	1887	20.547	-19.417	18.545	1.00	9.48
ATOM	12629	N	MET	1888	22.614	-20.260	18.250	1.00	8.23
ATOM	12630	CA	MET	1888	23.337	-19.130	18.827	1.00	10.91
ATOM	12631	CB	MET	1888	23.230	-17.906	17.906	1.00	13.53
ATOM	12632	CG	MET	1888	24.386	-16.914	18.080	1.00	15.10
ATOM	12633	SD	MET	1888	26.011	-17.588	17.599	1.00	16.09
ATOM	12634	CE	MET	1888	26.079	-17.055	15.901	1.00	19.82
ATOM	12635	C	MET	1888	22.920	-18.736	20.251	1.00	12.89
ATOM	12636	O	MET	1888	23.012	-17.564	20.629	1.00	13.39
ATOM	12637	N	ALA	1889	22.468	-19.707	21.040	1.00	10.65
ATOM	12638	CA	ALA	1889	22.079	-19.421	22.413	1.00	11.53
ATOM	12639	CB	ALA	1889	20.803	-20.186	22.791	1.00	12.05
ATOM	12640	C	ALA	1889	23.200	-19.776	23.383	1.00	11.33
ATOM	12641	O	ALA	1889	23.067	-19.595	24.595	1.00	13.56
ATOM	12642	N	TYR	1890	24.305	-20.292	22.859	1.00	11.07
ATOM	12643	CA	TYR	1890	25.439	-20.634	23.707	1.00	12.50
ATOM	12644	CB	TYR	1890	25.378	-22.121	24.089	1.00	12.92
ATOM	12645	CG	TYR	1890	25.067	-23.060	22.939	1.00	13.64
ATOM	12646	CD1	TYR	1890	26.089	-23.716	22.253	1.00	14.95
ATOM	12647	CE1	TYR	1890	25.809	-24.579	21.191	1.00	15.46
ATOM	12648	CD2	TYR	1890	23.750	-23.288	22.535	1.00	14.15
ATOM	12649	CE2	TYR	1890	23.456	-24.150	21.471	1.00	15.84
ATOM	12650	CZ	TYR	1890	24.488	-24.788	20.809	1.00	16.93
ATOM	12651	OH	TYR	1890	24.206	-25.631	19.756	1.00	19.58
ATOM	12652	C	TYR	1890	26.743	-20.287	23.000	1.00	12.88
ATOM	12653	O	TYR	1890	27.716	-21.043	23.037	1.00	13.54
ATOM	12654	N	ALA	1891	26.741	-19.114	22.371	1.00	11.98
ATOM	12655	CA	ALA	1891	27.885	-18.600	21.618	1.00	13.29
ATOM	12656	CB	ALA	1891	27.472	-17.339	20.862	1.00	13.53

ATOM	12657	C	ALA	1891	29.100	-18.305	22.490	1.00	13.87
ATOM	12658	O	ALA	1891	30.231	-18.288	22.009	1.00	13.32
ATOM	12659	N	THR	1892	28.850	-18.059	23.769	1.00	12.24
ATOM	12660	CA	THR	1892	29.905	-17.796	24.737	1.00	12.51
ATOM	12661	CB	THR	1892	30.098	-16.286	25.011	1.00	11.96
ATOM	12662	OG1	THR	1892	28.968	-15.783	25.737	1.00	12.50
ATOM	12663	CG2	THR	1892	30.235	-15.516	23.709	1.00	13.36
ATOM	12664	C	THR	1892	29.448	-18.432	26.033	1.00	13.46
ATOM	12665	O	THR	1892	28.252	-18.666	26.231	1.00	14.08
ATOM	12666	N	PRO	1893	30.393	-18.732	26.932	1.00	14.40
ATOM	12667	CD	PRO	1893	31.860	-18.731	26.789	1.00	13.32
ATOM	12668	CA	PRO	1893	29.988	-19.339	28.196	1.00	14.16
ATOM	12669	CB	PRO	1893	31.316	-19.513	28.929	1.00	17.60
ATOM	12670	CG	PRO	1893	32.274	-19.784	27.800	1.00	15.21
ATOM	12671	C	PRO	1893	28.992	-18.442	28.936	1.00	13.95
ATOM	12672	O	PRO	1893	27.964	-18.910	29.425	1.00	11.45
ATOM	12673	N	GLU	1894	29.273	-17.144	28.994	1.00	15.13
ATOM	12674	CA	GLU	1894	28.374	-16.224	29.681	1.00	15.41
ATOM	12675	CB	GLU	1894	28.946	-14.803	29.634	1.00	19.41
ATOM	12676	CG	GLU	1894	28.154	-13.789	30.437	1.00	28.99
ATOM	12677	CD	GLU	1894	29.047	-12.721	31.046	1.00	32.24
ATOM	12678	OE1	GLU	1894	29.945	-12.223	30.334	1.00	34.50
ATOM	12679	OE2	GLU	1894	28.849	-12.379	32.233	1.00	37.07
ATOM	12680	C	GLU	1894	26.951	-16.261	29.111	1.00	14.63
ATOM	12681	O	GLU	1894	25.981	-16.257	29.869	1.00	14.06
ATOM	12682	N	GLN	1895	26.811	-16.307	27.787	1.00	13.27
ATOM	12683	CA	GLN	1895	25.473	-16.360	27.184	1.00	14.64
ATOM	12684	CB	GLN	1895	25.539	-16.123	25.675	1.00	18.45
ATOM	12685	CG	GLN	1895	26.046	-14.746	25.293	1.00	26.37
ATOM	12686	CD	GLN	1895	25.806	-14.442	23.835	1.00	30.60
ATOM	12687	OE1	GLN	1895	24.660	-14.396	23.389	1.00	35.03
ATOM	12688	NE2	GLN	1895	26.883	-14.236	23.077	1.00	35.29
ATOM	12689	C	GLN	1895	24.810	-17.704	27.445	1.00	14.04
ATOM	12690	O	GLN	1895	23.587	-17.791	27.603	1.00	12.48
ATOM	12691	N	ALA	1896	25.616	-18.758	27.465	1.00	11.38
ATOM	12692	CA	ALA	1896	25.085	-20.086	27.732	1.00	11.76
ATOM	12693	CB	ALA	1896	26.188	-21.149	27.572	1.00	11.03
ATOM	12694	C	ALA	1896	24.510	-20.130	29.153	1.00	11.59
ATOM	12695	O	ALA	1896	23.460	-20.733	29.387	1.00	11.46
ATOM	12696	N	PHE	1897	25.191	-19.475	30.094	1.00	10.77
ATOM	12697	CA	PHE	1897	24.738	-19.446	31.485	1.00	11.53
ATOM	12698	CB	PHE	1897	25.690	-18.639	32.390	1.00	9.99
ATOM	12699	CG	PHE	1897	27.119	-19.116	32.392	1.00	10.28
ATOM	12700	CD1	PHE	1897	27.439	-20.445	32.150	1.00	12.24
ATOM	12701	CD2	PHE	1897	28.153	-18.211	32.657	1.00	9.95
ATOM	12702	CE1	PHE	1897	28.775	-20.879	32.166	1.00	12.67
ATOM	12703	CE2	PHE	1897	29.489	-18.623	32.677	1.00	11.90
ATOM	12704	CZ	PHE	1897	29.799	-19.959	32.429	1.00	13.96
ATOM	12705	C	PHE	1897	23.364	-18.814	31.627	1.00	11.72
ATOM	12706	O	PHE	1897	22.498	-19.343	32.322	1.00	10.76
ATOM	12707	N	GLU	1898	23.183	-17.667	30.986	1.00	11.55
ATOM	12708	CA	GLU	1898	21.924	-16.945	31.060	1.00	14.41
ATOM	12709	CB	GLU	1898	22.072	-15.550	30.444	1.00	17.46
ATOM	12710	CG	GLU	1898	20.906	-14.623	30.790	1.00	25.46
ATOM	12711	CD	GLU	1898	20.594	-14.618	32.284	1.00	28.92
ATOM	12712	OE1	GLU	1898	21.449	-14.157	33.072	1.00	31.30
ATOM	12713	OE2	GLU	1898	19.495	-15.105	32.675	1.00	34.77
ATOM	12714	C	GLU	1898	20.793	-17.692	30.382	1.00	12.46
ATOM	12715	O	GLU	1898	19.701	-17.792	30.933	1.00	11.48
ATOM	12716	N	ASN	1899	21.045	-18.229	29.192	1.00	12.32
ATOM	12717	CA	ASN	1899	19.988	-18.947	28.489	1.00	11.52
ATOM	12718	CB	ASN	1899	20.318	-19.064	26.999	1.00	12.87
ATOM	12719	CG	ASN	1899	20.455	-17.700	26.329	1.00	14.75
ATOM	12720	OD1	ASN	1899	19.690	-16.777	26.621	1.00	10.94
ATOM	12721	ND2	ASN	1899	21.405	-17.579	25.411	1.00	11.61
ATOM	12722	C	ASN	1899	19.686	-20.311	29.096	1.00	11.22
ATOM	12723	O	ASN	1899	18.534	-20.758	29.053	1.00	10.29
ATOM	12724	N	ALA	1900	20.690	-20.985	29.658	1.00	10.29
ATOM	12725	CA	ALA	1900	20.430	-22.271	30.307	1.00	9.38
ATOM	12726	CB	ALA	1900	21.746	-22.926	30.770	1.00	8.73
ATOM	12727	C	ALA	1900	19.543	-21.970	31.522	1.00	9.37
ATOM	12728	O	ALA	1900	18.551	-22.646	31.762	1.00	8.92
ATOM	12729	N	ALA	1901	19.908	-20.936	32.275	1.00	10.46
ATOM	12730	CA	ALA	1901	19.147	-20.551	33.458	1.00	9.71
ATOM	12731	CB	ALA	1901	19.748	-19.294	34.086	1.00	9.98
ATOM	12732	C	ALA	1901	17.686	-20.305	33.109	1.00	9.18
ATOM	12733	O	ALA	1901	16.783	-20.733	33.823	1.00	9.21

ATOM	12734	N	THR	1902	17.456	-19.601	32.007	1.00	9.93
ATOM	12735	CA	THR	1902	16.092	-19.293	31.588	1.00	10.15
ATOM	12736	CB	THR	1902	16.081	-18.483	30.279	1.00	10.21
ATOM	12737	OG1	THR	1902	16.814	-17.268	30.484	1.00	10.06
ATOM	12738	CG2	THR	1902	14.647	-18.122	29.878	1.00	9.60
ATOM	12739	C	THR	1902	15.264	-20.549	31.403	1.00	10.35
ATOM	12740	O	THR	1902	14.156	-20.659	31.941	1.00	8.19
ATOM	12741	N	VAL	1903	15.801	-21.506	30.655	1.00	10.07
ATOM	12742	CA	VAL	1903	15.052	-22.723	30.410	1.00	12.02
ATOM	12743	CB	VAL	1903	15.620	-23.470	29.168	1.00	13.59
ATOM	12744	CG1	VAL	1903	16.916	-24.192	29.494	1.00	12.92
ATOM	12745	CG2	VAL	1903	14.577	-24.403	28.622	1.00	21.31
ATOM	12746	C	VAL	1903	14.936	-23.627	31.648	1.00	10.38
ATOM	12747	O	VAL	1903	13.961	-24.369	31.787	1.00	9.04
ATOM	12748	N	MET	1904	15.901	-23.545	32.558	1.00	10.20
ATOM	12749	CA	MET	1904	15.842	-24.351	33.778	1.00	11.10
ATOM	12750	CB	MET	1904	17.223	-24.428	34.444	1.00	12.49
ATOM	12751	CG	MET	1904	18.307	-25.051	33.599	1.00	18.01
ATOM	12752	SD	MET	1904	18.226	-26.845	33.611	1.00	19.52
ATOM	12753	CE	MET	1904	18.566	-27.204	35.406	1.00	18.10
ATOM	12754	C	MET	1904	14.826	-23.742	34.761	1.00	9.98
ATOM	12755	O	MET	1904	14.108	-24.479	35.433	1.00	11.43
ATOM	12756	N	ARG	1905	14.770	-22.412	34.860	1.00	8.90
ATOM	12757	CA	ARG	1905	13.799	-21.809	35.775	1.00	8.03
ATOM	12758	CB	ARG	1905	13.982	-20.295	35.901	1.00	8.24
ATOM	12759	CG	ARG	1905	15.331	-19.885	36.473	1.00	12.25
ATOM	12760	CD	ARG	1905	15.304	-18.465	37.003	1.00	11.94
ATOM	12761	NE	ARG	1905	16.652	-17.990	37.289	1.00	15.25
ATOM	12762	CZ	ARG	1905	17.447	-17.418	36.393	1.00	13.90
ATOM	12763	NH1	ARG	1905	17.029	-17.233	35.149	1.00	14.60
ATOM	12764	NH2	ARG	1905	18.677	-17.063	36.733	1.00	17.42
ATOM	12765	C	ARG	1905	12.398	-22.099	35.256	1.00	9.53
ATOM	12766	O	ARG	1905	11.445	-22.195	36.024	1.00	10.47
ATOM	12767	N	ALA	1906	12.291	-22.274	33.946	1.00	8.58
ATOM	12768	CA	ALA	1906	11.011	-22.538	33.317	1.00	8.67
ATOM	12769	CB	ALA	1906	11.100	-22.235	31.814	1.00	9.41
ATOM	12770	C	ALA	1906	10.511	-23.963	33.535	1.00	10.77
ATOM	12771	O	ALA	1906	9.351	-24.270	33.250	1.00	10.28
ATOM	12772	N	GLY	1907	11.382	-24.841	34.018	1.00	10.02
ATOM	12773	CA	GLY	1907	10.962	-26.209	34.291	1.00	9.93
ATOM	12774	C	GLY	1907	11.889	-27.330	33.869	1.00	12.15
ATOM	12775	O	GLY	1907	11.684	-28.485	34.261	1.00	11.23
ATOM	12776	N	ALA	1908	12.907	-27.009	33.081	1.00	11.34
ATOM	12777	CA	ALA	1908	13.851	-28.026	32.612	1.00	11.08
ATOM	12778	CB	ALA	1908	14.702	-27.455	31.475	1.00	10.75
ATOM	12779	C	ALA	1908	14.758	-28.529	33.739	1.00	11.38
ATOM	12780	O	ALA	1908	14.955	-27.848	34.747	1.00	8.45
ATOM	12781	N	ASN	1909	15.303	-29.729	33.567	1.00	11.47
ATOM	12782	CA	ASN	1909	16.205	-30.302	34.564	1.00	10.53
ATOM	12783	CB	ASN	1909	15.804	-31.727	34.939	1.00	12.92
ATOM	12784	CG	ASN	1909	14.432	-31.812	35.556	1.00	14.93
ATOM	12785	OD1	ASN	1909	14.140	-31.192	36.589	1.00	14.28
ATOM	12786	ND2	ASN	1909	13.577	-32.595	34.928	1.00	10.46
ATOM	12787	C	ASN	1909	17.593	-30.385	33.970	1.00	11.82
ATOM	12788	O	ASN	1909	18.569	-30.560	34.682	1.00	12.44
ATOM	12789	N	MET	1910	17.670	-30.262	32.653	1.00	10.66
ATOM	12790	CA	MET	1910	18.934	-30.391	31.960	1.00	11.23
ATOM	12791	CB	MET	1910	19.228	-31.888	31.799	1.00	11.33
ATOM	12792	CG	MET	1910	20.340	-32.264	30.850	1.00	15.81
ATOM	12793	SD	MET	1910	20.549	-34.076	30.827	1.00	17.80
ATOM	12794	CE	MET	1910	21.887	-34.311	32.027	1.00	18.58
ATOM	12795	C	MET	1910	18.822	-29.716	30.601	1.00	10.32
ATOM	12796	O	MET	1910	17.730	-29.632	30.036	1.00	10.64
ATOM	12797	N	VAL	1911	19.941	-29.223	30.086	1.00	9.77
ATOM	12798	CA	VAL	1911	19.942	-28.561	28.791	1.00	10.49
ATOM	12799	CB	VAL	1911	20.552	-27.149	28.904	1.00	14.32
ATOM	12800	CG1	VAL	1911	20.525	-26.477	27.563	1.00	20.77
ATOM	12801	CG2	VAL	1911	19.784	-26.322	29.924	1.00	16.29
ATOM	12802	C	VAL	1911	20.752	-29.368	27.782	1.00	11.18
ATOM	12803	O	VAL	1911	21.758	-29.989	28.128	1.00	12.97
ATOM	12804	N	LYS	1912	20.304	-29.364	26.535	1.00	11.26
ATOM	12805	CA	LYS	1912	21.019	-30.062	25.480	1.00	11.63
ATOM	12806	CB	LYS	1912	20.088	-30.999	24.712	1.00	11.49
ATOM	12807	CG	LYS	1912	20.806	-31.774	23.598	1.00	13.76
ATOM	12808	CD	LYS	1912	20.027	-33.015	23.160	1.00	15.10
ATOM	12809	CE	LYS	1912	18.742	-32.667	22.415	1.00	17.50
ATOM	12810	NZ	LYS	1912	18.980	-32.003	21.096	1.00	16.50

ATOM	12811	C	LYS	1912	21.607	-29.027	24.522	1.00	10.56
ATOM	12812	O	LYS	1912	20.928	-28.077	24.128	1.00	12.27
ATOM	12813	N	ILE	1913	22.875	-29.208	24.169	1.00	11.16
ATOM	12814	CA	ILE	1913	23.566	-28.301	23.260	1.00	14.22
ATOM	12815	CB	ILE	1913	24.541	-27.375	24.034	1.00	16.27
ATOM	12816	CG2	ILE	1913	23.738	-26.374	24.883	1.00	15.84
ATOM	12817	CG1	ILE	1913	25.463	-28.206	24.925	1.00	18.46
ATOM	12818	CD1	ILE	1913	26.415	-27.376	25.786	1.00	18.67
ATOM	12819	C	ILE	1913	24.335	-29.121	22.228	1.00	15.17
ATOM	12820	O	ILE	1913	24.929	-30.149	22.563	1.00	15.09
ATOM	12821	N	GLU	1914	24.326	-28.671	20.975	1.00	15.40
ATOM	12822	CA	GLU	1914	25.003	-29.392	19.889	1.00	16.44
ATOM	12823	CB	GLU	1914	24.205	-29.272	18.582	1.00	19.74
ATOM	12824	CG	GLU	1914	22.709	-29.426	18.725	1.00	25.29
ATOM	12825	CD	GLU	1914	21.987	-29.391	17.387	1.00	28.05
ATOM	12826	OE1	GLU	1914	22.415	-28.626	16.497	1.00	28.95
ATOM	12827	OE2	GLU	1914	20.987	-30.120	17.231	1.00	31.69
ATOM	12828	C	GLU	1914	26.411	-28.893	19.623	1.00	15.88
ATOM	12829	O	GLU	1914	26.630	-27.696	19.463	1.00	14.70
ATOM	12830	N	GLY	1915	27.371	-29.805	19.550	1.00	16.86
ATOM	12831	CA	GLY	1915	28.736	-29.379	19.288	1.00	18.17
ATOM	12832	C	GLY	1915	29.783	-30.355	19.788	1.00	20.08
ATOM	12833	O	GLY	1915	29.497	-31.203	20.631	1.00	21.39
ATOM	12834	N	GLY	1916	30.999	-30.223	19.264	1.00	20.87
ATOM	12835	CA	GLY	1916	32.086	-31.091	19.662	1.00	22.00
ATOM	12836	C	GLY	1916	32.949	-30.518	20.768	1.00	22.33
ATOM	12837	O	GLY	1916	32.449	-29.886	21.705	1.00	21.23
ATOM	12838	N	GLU	1917	34.258	-30.720	20.656	1.00	22.96
ATOM	12839	CA	GLU	1917	35.178	-30.232	21.677	1.00	22.46
ATOM	12840	CB	GLU	1917	36.608	-30.681	21.376	1.00	26.72
ATOM	12841	CG	GLU	1917	36.939	-32.014	22.003	1.00	33.75
ATOM	12842	CD	GLU	1917	38.367	-32.087	22.494	1.00	34.57
ATOM	12843	OE1	GLU	1917	38.778	-31.190	23.257	1.00	37.45
ATOM	12844	OE2	GLU	1917	39.067	-33.048	22.120	1.00	39.06
ATOM	12845	C	GLU	1917	35.189	-28.738	21.944	1.00	19.95
ATOM	12846	O	GLU	1917	35.604	-28.324	23.018	1.00	18.13
ATOM	12847	N	TRP	1918	34.747	-27.920	20.994	1.00	18.83
ATOM	12848	CA	TRP	1918	34.771	-26.492	21.255	1.00	16.44
ATOM	12849	CB	TRP	1918	34.372	-25.680	20.010	1.00	16.23
ATOM	12850	CG	TRP	1918	32.918	-25.705	19.630	1.00	15.75
ATOM	12851	CD2	TRP	1918	31.940	-24.702	19.927	1.00	15.59
ATOM	12852	CE2	TRP	1918	30.728	-25.106	19.323	1.00	16.90
ATOM	12853	CE3	TRP	1918	31.970	-23.499	20.646	1.00	17.10
ATOM	12854	CD1	TRP	1918	32.275	-26.655	18.882	1.00	18.69
ATOM	12855	NE1	TRP	1918	30.960	-26.300	18.691	1.00	17.49
ATOM	12856	CZ2	TRP	1918	29.554	-24.345	19.412	1.00	14.08
ATOM	12857	CZ3	TRP	1918	30.802	-22.739	20.738	1.00	17.47
ATOM	12858	CH2	TRP	1918	29.607	-23.170	20.121	1.00	17.12
ATOM	12859	C	TRP	1918	33.878	-26.130	22.439	1.00	15.03
ATOM	12860	O	TRP	1918	34.044	-25.078	23.051	1.00	15.31
ATOM	12861	N	LEU	1919	32.944	-27.013	22.778	1.00	14.71
ATOM	12862	CA	LEU	1919	32.021	-26.761	23.891	1.00	14.78
ATOM	12863	CB	LEU	1919	30.682	-27.454	23.626	1.00	15.37
ATOM	12864	CG	LEU	1919	29.808	-26.866	22.519	1.00	17.11
ATOM	12865	CD1	LEU	1919	28.579	-27.749	22.330	1.00	18.09
ATOM	12866	CD2	LEU	1919	29.400	-25.442	22.894	1.00	16.88
ATOM	12867	C	LEU	1919	32.530	-27.206	25.259	1.00	14.85
ATOM	12868	O	LEU	1919	31.896	-26.926	26.270	1.00	12.57
ATOM	12869	N	VAL	1920	33.667	-27.893	25.298	1.00	15.61
ATOM	12870	CA	VAL	1920	34.189	-28.386	26.569	1.00	15.42
ATOM	12871	CB	VAL	1920	35.582	-29.008	26.379	1.00	16.95
ATOM	12872	CG1	VAL	1920	36.302	-29.125	27.717	1.00	16.07
ATOM	12873	CG2	VAL	1920	35.425	-30.389	25.764	1.00	15.13
ATOM	12874	C	VAL	1920	34.216	-27.366	27.707	1.00	16.07
ATOM	12875	O	VAL	1920	33.758	-27.662	28.808	1.00	15.60
ATOM	12876	N	GLU	1921	34.737	-26.172	27.448	1.00	15.79
ATOM	12877	CA	GLU	1921	34.785	-25.141	28.483	1.00	16.09
ATOM	12878	CB	GLU	1921	35.480	-23.888	27.949	1.00	18.74
ATOM	12879	CG	GLU	1921	35.428	-22.701	28.889	1.00	24.44
ATOM	12880	CD	GLU	1921	36.271	-21.543	28.394	1.00	27.12
ATOM	12881	OE1	GLU	1921	36.105	-21.136	27.224	1.00	28.89
ATOM	12882	OE2	GLU	1921	37.104	-21.045	29.177	1.00	30.38
ATOM	12883	C	GLU	1921	33.373	-24.780	28.935	1.00	15.64
ATOM	12884	O	GLU	1921	33.095	-24.650	30.128	1.00	14.95
ATOM	12885	N	THR	1922	32.478	-24.623	27.971	1.00	16.48
ATOM	12886	CA	THR	1922	31.102	-24.268	28.289	1.00	15.13
ATOM	12887	CB	THR	1922	30.285	-24.074	27.017	1.00	14.39



ATOM	12888	OG1	THR	1922	30.846	-22.993	26.265	1.00	14.42
ATOM	12889	CG2	THR	1922	28.834	-23.753	27.354	1.00	13.35
ATOM	12890	C	THR	1922	30.439	-25.321	29.161	1.00	13.15
ATOM	12891	O	THR	1922	29.759	-24.990	30.136	1.00	13.84
ATOM	12892	N	VAL	1923	30.632	-26.589	28.815	1.00	14.02
ATOM	12893	CA	VAL	1923	30.042	-27.671	29.590	1.00	13.28
ATOM	12894	CB	VAL	1923	30.285	-29.039	28.911	1.00	13.90
ATOM	12895	CG1	VAL	1923	29.800	-30.171	29.818	1.00	14.64
ATOM	12896	CG2	VAL	1923	29.552	-29.080	27.584	1.00	14.39
ATOM	12897	C	VAL	1923	30.611	-27.687	31.000	1.00	15.48
ATOM	12898	O	VAL	1923	29.863	-27.755	31.982	1.00	12.62
ATOM	12899	N	GLN	1924	31.932	-27.598	31.109	1.00	15.37
ATOM	12900	CA	GLN	1924	32.566	-27.606	32.434	1.00	17.23
ATOM	12901	CB	GLN	1924	34.087	-27.396	32.310	1.00	19.46
ATOM	12902	CG	GLN	1924	34.796	-28.434	31.437	1.00	23.92
ATOM	12903	CD	GLN	1924	36.306	-28.223	31.344	1.00	28.58
ATOM	12904	OE1	GLN	1924	36.778	-27.120	31.054	1.00	27.54
ATOM	12905	NE2	GLN	1924	37.069	-29.293	31.575	1.00	28.43
ATOM	12906	C	GLN	1924	31.966	-26.527	33.344	1.00	16.21
ATOM	12907	O	GLN	1924	31.576	-26.811	34.470	1.00	15.27
ATOM	12908	N	MET	1925	31.881	-25.299	32.843	1.00	15.24
ATOM	12909	CA	MET	1925	31.356	-24.188	33.624	1.00	14.73
ATOM	12910	CB	MET	1925	31.688	-22.875	32.921	1.00	17.14
ATOM	12911	CG	MET	1925	33.189	-22.574	32.914	1.00	17.57
ATOM	12912	SD	MET	1925	33.579	-21.081	31.980	1.00	19.95
ATOM	12913	CE	MET	1925	33.416	-19.842	33.296	1.00	22.55
ATOM	12914	C	MET	1925	29.872	-24.267	33.944	1.00	15.19
ATOM	12915	O	MET	1925	29.452	-23.902	35.044	1.00	12.00
ATOM	12916	N	LEU	1926	29.070	-24.735	32.995	1.00	13.48
ATOM	12917	CA	LEU	1926	27.638	-24.868	33.240	1.00	14.38
ATOM	12918	CB	LEU	1926	26.934	-25.398	31.989	1.00	12.37
ATOM	12919	CG	LEU	1926	26.531	-24.365	30.944	1.00	10.67
ATOM	12920	CD1	LEU	1926	26.209	-25.077	29.631	1.00	10.46
ATOM	12921	CD2	LEU	1926	25.320	-23.570	31.450	1.00	11.83
ATOM	12922	C	LEU	1926	27.389	-25.827	34.391	1.00	15.78
ATOM	12923	O	LEU	1926	26.604	-25.542	35.298	1.00	14.90
ATOM	12924	N	THR	1927	28.061	-26.974	34.348	1.00	17.82
ATOM	12925	CA	THR	1927	27.891	-27.988	35.385	1.00	19.33
ATOM	12926	CB	THR	1927	28.736	-29.236	35.074	1.00	22.11
ATOM	12927	OG1	THR	1927	28.239	-29.852	33.873	1.00	23.96
ATOM	12928	CG2	THR	1927	28.653	-30.240	36.219	1.00	26.37
ATOM	12929	C	THR	1927	28.222	-27.472	36.780	1.00	20.67
ATOM	12930	O	THR	1927	27.482	-27.738	37.731	1.00	19.83
ATOM	12931	N	GLU	1928	29.325	-26.741	36.926	1.00	19.57
ATOM	12932	CA	GLU	1928	29.639	-26.217	38.254	1.00	20.59
ATOM	12933	CB	GLU	1928	31.087	-25.716	38.340	1.00	23.01
ATOM	12934	CG	GLU	1928	31.562	-24.901	37.176	1.00	24.98
ATOM	12935	CD	GLU	1928	32.983	-24.379	37.372	1.00	25.34
ATOM	12936	OE1	GLU	1928	33.819	-25.097	37.963	1.00	28.59
ATOM	12937	OE2	GLU	1928	33.271	-23.258	36.920	1.00	24.69
ATOM	12938	C	GLU	1928	28.648	-25.121	38.649	1.00	19.64
ATOM	12939	O	GLU	1928	28.514	-24.801	39.830	1.00	20.05
ATOM	12940	N	ARG	1929	27.943	-24.558	37.666	1.00	16.54
ATOM	12941	CA	ARG	1929	26.938	-23.536	37.948	1.00	15.92
ATOM	12942	CB	ARG	1929	27.001	-22.425	36.901	1.00	15.43
ATOM	12943	CG	ARG	1929	28.222	-21.543	37.095	1.00	16.86
ATOM	12944	CD	ARG	1929	28.530	-20.685	35.884	1.00	16.91
ATOM	12945	NE	ARG	1929	29.786	-19.956	36.071	1.00	15.63
ATOM	12946	CZ	ARG	1929	30.972	-20.533	36.258	1.00	17.47
ATOM	12947	NH1	ARG	1929	31.080	-21.855	36.284	1.00	20.43
ATOM	12948	NH2	ARG	1929	32.056	-19.786	36.418	1.00	17.19
ATOM	12949	C	ARG	1929	25.531	-24.134	38.032	1.00	16.03
ATOM	12950	O	ARG	1929	24.528	-23.480	37.724	1.00	15.35
ATOM	12951	N	ALA	1930	25.492	-25.398	38.446	1.00	15.30
ATOM	12952	CA	ALA	1930	24.262	-26.152	38.674	1.00	14.02
ATOM	12953	CB	ALA	1930	23.364	-25.373	39.645	1.00	17.52
ATOM	12954	C	ALA	1930	23.437	-26.610	37.473	1.00	14.90
ATOM	12955	O	ALA	1930	22.302	-27.051	37.655	1.00	12.87
ATOM	12956	N	VAL	1931	23.974	-26.510	36.260	1.00	13.13
ATOM	12957	CA	VAL	1931	23.217	-26.948	35.100	1.00	13.22
ATOM	12958	CB	VAL	1931	23.220	-25.876	33.974	1.00	14.49
ATOM	12959	CG1	VAL	1931	22.325	-26.328	32.829	1.00	11.71
ATOM	12960	CG2	VAL	1931	22.746	-24.539	34.522	1.00	14.16
ATOM	12961	C	VAL	1931	23.752	-28.239	34.492	1.00	13.32
ATOM	12962	O	VAL	1931	24.905	-28.296	34.046	1.00	13.87
ATOM	12963	N	PRO	1932	22.940	-29.307	34.502	1.00	13.80
ATOM	12964	CD	PRO	1932	21.715	-29.508	35.290	1.00	14.21

ATOM	12965	CA	PRO	1932	23.395	-30.567	33.908	1.00	13.32
ATOM	12966	CB	PRO	1932	22.396	-31.596	34.437	1.00	15.25
ATOM	12967	CG	PRO	1932	21.178	-30.791	34.712	1.00	20.66
ATOM	12968	C	PRO	1932	23.310	-30.391	32.396	1.00	11.97
ATOM	12969	O	PRO	1932	22.413	-29.713	31.897	1.00	12.08
ATOM	12970	N	VAL	1933	24.228	-31.012	31.669	1.00	11.35
ATOM	12971	CA	VAL	1933	24.270	-30.869	30.218	1.00	11.25
ATOM	12972	CB	VAL	1933	25.577	-30.149	29.793	1.00	12.56
ATOM	12973	CG1	VAL	1933	25.676	-30.079	28.280	1.00	10.86
ATOM	12974	CG2	VAL	1933	25.634	-28.768	30.411	1.00	10.60
ATOM	12975	C	VAL	1933	24.205	-32.194	29.474	1.00	13.16
ATOM	12976	O	VAL	1933	24.850	-33.170	29.853	1.00	12.41
ATOM	12977	N	CYS	1934	23.417	-32.218	28.411	1.00	11.26
ATOM	12978	CA	CYS	1934	23.298	-33.393	27.574	1.00	11.02
ATOM	12979	CB	CYS	1934	21.822	-33.687	27.271	1.00	11.90
ATOM	12980	SG	CYS	1934	21.573	-35.022	26.038	1.00	13.45
ATOM	12981	C	CYS	1934	24.031	-32.993	26.301	1.00	13.27
ATOM	12982	O	CYS	1934	23.773	-31.929	25.739	1.00	12.86
ATOM	12983	N	GLY	1935	24.978	-33.817	25.872	1.00	12.09
ATOM	12984	CA	GLY	1935	25.705	-33.515	24.655	1.00	10.39
ATOM	12985	C	GLY	1935	24.870	-33.961	23.475	1.00	11.98
ATOM	12986	O	GLY	1935	23.843	-34.627	23.654	1.00	12.33
ATOM	12987	N	HIS	1936	25.305	-33.601	22.272	1.00	10.95
ATOM	12988	CA	HIS	1936	24.585	-33.957	21.054	1.00	13.54
ATOM	12989	CB	HIS	1936	23.453	-32.945	20.813	1.00	13.71
ATOM	12990	CG	HIS	1936	22.547	-33.285	19.669	1.00	16.35
ATOM	12991	CD2	HIS	1936	22.722	-34.088	18.593	1.00	17.45
ATOM	12992	ND1	HIS	1936	21.297	-32.719	19.522	1.00	13.36
ATOM	12993	CE1	HIS	1936	20.745	-33.155	18.406	1.00	17.41
ATOM	12994	NE2	HIS	1936	21.589	-33.986	17.821	1.00	19.02
ATOM	12995	C	HIS	1936	25.568	-33.974	19.889	1.00	12.21
ATOM	12996	O	HIS	1936	26.069	-32.929	19.460	1.00	12.99
ATOM	12997	N	LEU	1937	25.825	-35.176	19.382	1.00	13.16
ATOM	12998	CA	LEU	1937	26.767	-35.384	18.287	1.00	12.94
ATOM	12999	CB	LEU	1937	27.994	-36.157	18.797	1.00	12.68
ATOM	13000	CG	LEU	1937	28.833	-35.486	19.884	1.00	13.53
ATOM	13001	CD1	LEU	1937	29.914	-36.448	20.395	1.00	15.18
ATOM	13002	CD2	LEU	1937	29.449	-34.228	19.334	1.00	12.64
ATOM	13003	C	LEU	1937	26.141	-36.137	17.126	1.00	14.83
ATOM	13004	O	LEU	1937	25.103	-36.785	17.274	1.00	12.98
ATOM	13005	N	GLY	1938	26.792	-36.055	15.972	1.00	16.63
ATOM	13006	CA	GLY	1938	26.283	-36.719	14.790	1.00	22.86
ATOM	13007	C	GLY	1938	25.712	-35.675	13.854	1.00	27.34
ATOM	13008	O	GLY	1938	26.411	-34.740	13.466	1.00	27.92
ATOM	13009	N	LEU	1939	24.438	-35.824	13.504	1.00	30.73
ATOM	13010	CA	LEU	1939	23.766	-34.889	12.611	1.00	34.21
ATOM	13011	CB	LEU	1939	22.714	-35.638	11.786	1.00	35.61
ATOM	13012	CG	LEU	1939	22.029	-34.928	10.615	1.00	37.63
ATOM	13013	CD1	LEU	1939	21.406	-35.969	9.702	1.00	38.32
ATOM	13014	CD2	LEU	1939	20.973	-33.955	11.127	1.00	38.51
ATOM	13015	C	LEU	1939	23.116	-33.768	13.420	1.00	36.56
ATOM	13016	O	LEU	1939	22.114	-33.980	14.101	1.00	37.71
ATOM	13017	N	THR	1940	23.700	-32.576	13.343	1.00	38.68
ATOM	13018	CA	THR	1940	23.192	-31.417	14.070	1.00	40.34
ATOM	13019	CB	THR	1940	24.337	-30.684	14.791	1.00	40.75
ATOM	13020	OG1	THR	1940	25.398	-30.420	13.864	1.00	39.49
ATOM	13021	CG2	THR	1940	24.867	-31.530	15.934	1.00	41.22
ATOM	13022	C	THR	1940	22.490	-30.447	13.124	1.00	41.01
ATOM	13023	O	THR	1940	23.139	-29.714	12.379	1.00	42.38
ATOM	13024	N	PRO	1941	21.147	-30.430	13.152	1.00	42.07
ATOM	13025	CD	PRO	1941	20.294	-31.239	14.041	1.00	43.13
ATOM	13026	CA	PRO	1941	20.333	-29.558	12.297	1.00	42.02
ATOM	13027	CB	PRO	1941	18.903	-29.997	12.615	1.00	42.88
ATOM	13028	CG	PRO	1941	18.995	-30.474	14.019	1.00	44.03
ATOM	13029	C	PRO	1941	20.549	-28.058	12.486	1.00	41.54
ATOM	13030	O	PRO	1941	20.198	-27.265	11.611	1.00	41.77
ATOM	13031	N	GLN	1942	21.121	-27.663	13.619	1.00	40.66
ATOM	13032	CA	GLN	1942	21.376	-26.245	13.857	1.00	40.39
ATOM	13033	CB	GLN	1942	21.804	-26.012	15.307	1.00	39.97
ATOM	13034	CG	GLN	1942	20.658	-25.656	16.244	1.00	38.76
ATOM	13035	CD	GLN	1942	21.086	-25.620	17.701	1.00	38.71
ATOM	13036	OE1	GLN	1942	22.092	-24.999	18.053	1.00	35.82
ATOM	13037	NE2	GLN	1942	20.316	-26.284	18.559	1.00	36.70
ATOM	13038	C	GLN	1942	22.450	-25.722	12.906	1.00	40.11
ATOM	13039	O	GLN	1942	22.541	-24.519	12.660	1.00	39.36
ATOM	13040	N	SER	1943	23.256	-26.637	12.372	1.00	40.02
ATOM	13041	CA	SER	1943	24.329	-26.281	11.443	1.00	39.90

ATOM	13042	CB	SER	1943	25.637	-26.959	11.862	1.00	40.15
ATOM	13043	OG	SER	1943	25.992	-26.629	13.195	1.00	42.09
ATOM	13044	C	SER	1943	23.978	-26.703	10.017	1.00	39.67
ATOM	13045	O	SER	1943	24.864	-26.933	9.194	1.00	38.51
ATOM	13046	N	VAL	1944	22.682	-26.805	9.734	1.00	40.21
ATOM	13047	CA	VAL	1944	22.209	-27.205	8.411	1.00	40.13
ATOM	13048	CB	VAL	1944	20.660	-27.155	8.335	1.00	40.32
ATOM	13049	CG1	VAL	1944	20.160	-25.763	8.698	1.00	40.26
ATOM	13050	CG2	VAL	1944	20.196	-27.547	6.936	1.00	40.12
ATOM	13051	C	VAL	1944	22.794	-26.352	7.284	1.00	40.09
ATOM	13052	O	VAL	1944	23.178	-26.873	6.236	1.00	40.03
ATOM	13053	N	ASN	1945	22.862	-25.043	7.501	1.00	40.77
ATOM	13054	CA	ASN	1945	23.397	-24.128	6.498	1.00	42.02
ATOM	13055	CB	ASN	1945	23.120	-22.681	6.911	1.00	39.36
ATOM	13056	CG	ASN	1945	21.634	-22.388	7.028	1.00	38.68
ATOM	13057	OD1	ASN	1945	20.905	-22.428	6.035	1.00	33.53
ATOM	13058	ND2	ASN	1945	21.176	-22.102	8.244	1.00	34.93
ATOM	13059	C	ASN	1945	24.893	-24.336	6.292	1.00	43.74
ATOM	13060	O	ASN	1945	25.413	-24.102	5.200	1.00	43.69
ATOM	13061	N	ILE	1946	25.579	-24.774	7.344	1.00	46.06
ATOM	13062	CA	ILE	1946	27.014	-25.024	7.275	1.00	48.85
ATOM	13063	CB	ILE	1946	27.590	-25.387	8.664	1.00	48.08
ATOM	13064	CG2	ILE	1946	29.044	-25.828	8.527	1.00	48.67
ATOM	13065	CG1	ILE	1946	27.476	-24.188	9.609	1.00	47.10
ATOM	13066	CD1	ILE	1946	28.319	-22.994	9.203	1.00	45.47
ATOM	13067	C	ILE	1946	27.294	-26.176	6.316	1.00	51.55
ATOM	13068	O	ILE	1946	27.949	-26.001	5.287	1.00	51.88
ATOM	13069	N	PHE	1947	26.788	-27.354	6.666	1.00	54.57
ATOM	13070	CA	PHE	1947	26.970	-28.551	5.855	1.00	57.12
ATOM	13071	CB	PHE	1947	26.427	-29.770	6.605	1.00	59.02
ATOM	13072	CG	PHE	1947	27.106	-30.023	7.924	1.00	61.39
ATOM	13073	CD1	PHE	1947	28.397	-30.544	7.969	1.00	62.43
ATOM	13074	CD2	PHE	1947	26.461	-29.726	9.121	1.00	61.93
ATOM	13075	CE1	PHE	1947	29.036	-30.767	9.189	1.00	62.77
ATOM	13076	CE2	PHE	1947	27.090	-29.945	10.345	1.00	62.58
ATOM	13077	CZ	PHE	1947	28.380	-30.467	10.379	1.00	62.90
ATOM	13078	C	PHE	1947	26.260	-28.407	4.514	1.00	58.08
ATOM	13079	O	PHE	1947	26.884	-28.505	3.455	1.00	59.24
ATOM	13080	N	GLY	1948	24.954	-28.169	4.566	1.00	58.06
ATOM	13081	CA	GLY	1948	24.180	-28.015	3.349	1.00	58.62
ATOM	13082	C	GLY	1948	22.862	-28.761	3.410	1.00	59.00
ATOM	13083	O	GLY	1948	22.084	-28.740	2.458	1.00	58.82
ATOM	13084	N	GLY	1949	22.613	-29.420	4.537	1.00	59.35
ATOM	13085	CA	GLY	1949	21.381	-30.168	4.701	1.00	60.55
ATOM	13086	C	GLY	1949	21.459	-31.129	5.870	1.00	61.51
ATOM	13087	O	GLY	1949	22.026	-30.801	6.914	1.00	61.37
ATOM	13088	N	TYR	1950	20.889	-32.319	5.695	1.00	62.15
ATOM	13089	CA	TYR	1950	20.898	-33.337	6.745	1.00	62.76
ATOM	13090	CB	TYR	1950	19.524	-33.419	7.420	1.00	63.27
ATOM	13091	CG	TYR	1950	18.892	-32.075	7.706	1.00	63.93
ATOM	13092	CD1	TYR	1950	18.228	-31.368	6.702	1.00	64.37
ATOM	13093	CE1	TYR	1950	17.653	-30.124	6.955	1.00	64.90
ATOM	13094	CD2	TYR	1950	18.967	-31.502	8.975	1.00	64.29
ATOM	13095	CE2	TYR	1950	18.398	-30.258	9.239	1.00	64.47
ATOM	13096	CZ	TYR	1950	17.741	-29.576	8.225	1.00	65.14
ATOM	13097	OH	TYR	1950	17.169	-28.347	8.477	1.00	65.21
ATOM	13098	C	TYR	1950	21.266	-34.703	6.163	1.00	62.54
ATOM	13099	O	TYR	1950	20.515	-35.272	5.371	1.00	62.37
ATOM	13100	N	LYS	1951	22.423	-35.223	6.564	1.00	62.40
ATOM	13101	CA	LYS	1951	22.898	-36.517	6.081	1.00	62.04
ATOM	13102	CB	LYS	1951	23.874	-36.315	4.919	1.00	62.86
ATOM	13103	CG	LYS	1951	23.260	-35.611	3.721	1.00	64.49
ATOM	13104	CD	LYS	1951	24.309	-35.241	2.688	1.00	65.92
ATOM	13105	CE	LYS	1951	23.687	-34.471	1.532	1.00	66.41
ATOM	13106	NZ	LYS	1951	24.709	-33.991	0.560	1.00	67.31
ATOM	13107	C	LYS	1951	23.579	-37.316	7.190	1.00	60.75
ATOM	13108	O	LYS	1951	24.018	-36.755	8.195	1.00	60.94
ATOM	13109	N	VAL	1952	23.659	-38.630	6.999	1.00	58.89
ATOM	13110	CA	VAL	1952	24.284	-39.511	7.979	1.00	57.24
ATOM	13111	CB	VAL	1952	24.287	-40.975	7.491	1.00	57.00
ATOM	13112	CG1	VAL	1952	24.913	-41.875	8.545	1.00	57.09
ATOM	13113	CG2	VAL	1952	22.868	-41.422	7.184	1.00	56.86
ATOM	13114	C	VAL	1952	25.722	-39.079	8.243	1.00	56.27
ATOM	13115	O	VAL	1952	26.511	-38.917	7.313	1.00	55.83
ATOM	13116	N	GLN	1953	26.055	-38.898	9.517	1.00	54.84
ATOM	13117	CA	GLN	1953	27.395	-38.479	9.907	1.00	53.67
ATOM	13118	CB	GLN	1953	27.303	-37.270	10.841	1.00	53.92

ATOM	13119	CG	GLN	1953	28.623	-36.560	11.083	1.00	55.91
ATOM	13120	CD	GLN	1953	29.188	-35.934	9.820	1.00	56.76
ATOM	13121	OE1	GLN	1953	28.532	-35.114	9.174	1.00	55.89
ATOM	13122	NE2	GLN	1953	30.413	-36.318	9.463	1.00	56.77
ATOM	13123	C	GLN	1953	28.137	-39.623	10.600	1.00	52.67
ATOM	13124	O	GLN	1953	27.517	-40.550	11.116	1.00	52.18
ATOM	13125	N	GLY	1954	29.466	-39.558	10.598	1.00	51.97
ATOM	13126	CA	GLY	1954	30.256	-40.598	11.236	1.00	51.94
ATOM	13127	C	GLY	1954	30.855	-41.601	10.266	1.00	51.75
ATOM	13128	O	GLY	1954	31.612	-42.488	10.664	1.00	51.15
ATOM	13129	N	ARG	1955	30.514	-41.462	8.990	1.00	51.95
ATOM	13130	CA	ARG	1955	31.018	-42.353	7.953	1.00	52.89
ATOM	13131	CB	ARG	1955	30.331	-42.042	6.619	1.00	54.06
ATOM	13132	CG	ARG	1955	28.840	-42.353	6.588	1.00	56.32
ATOM	13133	CD	ARG	1955	28.588	-43.852	6.597	1.00	58.03
ATOM	13134	NE	ARG	1955	27.164	-44.184	6.599	1.00	59.33
ATOM	13135	CZ	ARG	1955	26.313	-43.872	5.625	1.00	59.73
ATOM	13136	NH1	ARG	1955	26.735	-43.212	4.554	1.00	59.72
ATOM	13137	NH2	ARG	1955	25.036	-44.223	5.720	1.00	60.10
ATOM	13138	C	ARG	1955	32.529	-42.205	7.797	1.00	52.91
ATOM	13139	O	ARG	1955	33.034	-41.102	7.582	1.00	52.93
ATOM	13140	N	GLY	1956	33.245	-43.320	7.909	1.00	52.81
ATOM	13141	CA	GLY	1956	34.692	-43.290	7.771	1.00	52.45
ATOM	13142	C	GLY	1956	35.420	-43.286	9.101	1.00	51.95
ATOM	13143	O	GLY	1956	34.882	-42.834	10.110	1.00	52.28
ATOM	13144	N	ASP	1957	36.650	-43.787	9.101	1.00	51.06
ATOM	13145	CA	ASP	1957	37.450	-43.841	10.319	1.00	50.18
ATOM	13146	CB	ASP	1957	38.777	-44.553	10.050	1.00	52.74
ATOM	13147	CG	ASP	1957	38.584	-45.974	9.572	1.00	55.34
ATOM	13148	OD1	ASP	1957	37.909	-46.752	10.283	1.00	56.35
ATOM	13149	OD2	ASP	1957	39.109	-46.315	8.489	1.00	57.00
ATOM	13150	C	ASP	1957	37.727	-42.446	10.867	1.00	47.95
ATOM	13151	O	ASP	1957	37.620	-42.209	12.069	1.00	47.47
ATOM	13152	N	GLU	1958	38.087	-41.529	9.977	1.00	45.13
ATOM	13153	CA	GLU	1958	38.387	-40.160	10.368	1.00	43.01
ATOM	13154	CB	GLU	1958	38.677	-39.318	9.127	1.00	45.74
ATOM	13155	CG	GLU	1958	39.190	-37.924	9.429	1.00	48.92
ATOM	13156	CD	GLU	1958	39.353	-37.092	8.174	1.00	51.94
ATOM	13157	OE1	GLU	1958	39.989	-37.585	7.215	1.00	52.78
ATOM	13158	OE2	GLU	1958	38.850	-35.947	8.148	1.00	53.38
ATOM	13159	C	GLU	1958	37.231	-39.540	11.146	1.00	40.27
ATOM	13160	O	GLU	1958	37.380	-39.175	12.313	1.00	37.28
ATOM	13161	N	ALA	1959	36.079	-39.424	10.493	1.00	36.37
ATOM	13162	CA	ALA	1959	34.900	-38.846	11.129	1.00	34.01
ATOM	13163	CB	ALA	1959	33.754	-38.760	10.130	1.00	33.11
ATOM	13164	C	ALA	1959	34.484	-39.683	12.333	1.00	31.93
ATOM	13165	O	ALA	1959	34.046	-39.149	13.353	1.00	31.65
ATOM	13166	N	GLY	1960	34.625	-40.997	12.203	1.00	30.55
ATOM	13167	CA	GLY	1960	34.262	-41.895	13.283	1.00	29.48
ATOM	13168	C	GLY	1960	35.089	-41.676	14.535	1.00	28.48
ATOM	13169	O	GLY	1960	34.553	-41.644	15.644	1.00	27.01
ATOM	13170	N	ASP	1961	36.397	-41.520	14.365	1.00	27.04
ATOM	13171	CA	ASP	1961	37.284	-41.310	15.502	1.00	27.15
ATOM	13172	CB	ASP	1961	38.752	-41.439	15.076	1.00	29.17
ATOM	13173	CG	ASP	1961	39.120	-42.849	14.653	1.00	31.98
ATOM	13174	OD1	ASP	1961	38.398	-43.797	15.040	1.00	30.19
ATOM	13175	OD2	ASP	1961	40.143	-43.009	13.944	1.00	33.17
ATOM	13176	C	ASP	1961	37.053	-39.947	16.135	1.00	25.99
ATOM	13177	O	ASP	1961	37.114	-39.803	17.358	1.00	25.23
ATOM	13178	N	GLN	1962	36.791	-38.945	15.301	1.00	24.65
ATOM	13179	CA	GLN	1962	36.549	-37.598	15.803	1.00	24.43
ATOM	13180	CB	GLN	1962	36.404	-36.613	14.644	1.00	25.79
ATOM	13181	CG	GLN	1962	36.228	-35.174	15.095	1.00	28.89
ATOM	13182	CD	GLN	1962	37.400	-34.677	15.912	1.00	31.20
ATOM	13183	OE1	GLN	1962	38.524	-34.600	15.419	1.00	31.16
ATOM	13184	NE2	GLN	1962	37.144	-34.339	17.172	1.00	32.91
ATOM	13185	C	GLN	1962	35.295	-37.556	16.678	1.00	22.32
ATOM	13186	O	GLN	1962	35.267	-36.860	17.691	1.00	20.87
ATOM	13187	N	LEU	1963	34.258	-38.294	16.285	1.00	21.33
ATOM	13188	CA	LEU	1963	33.032	-38.323	17.068	1.00	21.71
ATOM	13189	CB	LEU	1963	31.900	-39.012	16.293	1.00	22.46
ATOM	13190	CG	LEU	1963	31.338	-38.237	15.092	1.00	28.54
ATOM	13191	CD1	LEU	1963	30.208	-39.027	14.450	1.00	28.46
ATOM	13192	CD2	LEU	1963	30.822	-36.868	15.550	1.00	27.56
ATOM	13193	C	LEU	1963	33.274	-39.044	18.392	1.00	20.51
ATOM	13194	O	LEU	1963	32.745	-38.641	19.425	1.00	18.17
ATOM	13195	N	LEU	1964	34.074	-40.109	18.359	1.00	19.90

ATOM	13196	CA	LEU	1964	34.387	-40.860	19.573	1.00	18.82
ATOM	13197	CB	LEU	1964	35.293	-42.060	19.258	1.00	19.20
ATOM	13198	CG	LEU	1964	35.150	-43.326	20.114	1.00	22.73
ATOM	13199	CD1	LEU	1964	36.408	-44.170	19.984	1.00	21.26
ATOM	13200	CD2	LEU	1964	34.908	-42.985	21.568	1.00	21.92
ATOM	13201	C	LEU	1964	35.125	-39.916	20.513	1.00	18.01
ATOM	13202	O	LEU	1964	34.827	-39.843	21.704	1.00	16.75
ATOM	13203	N	SER	1965	36.097	-39.197	19.958	1.00	19.21
ATOM	13204	CA	SER	1965	36.891	-38.251	20.726	1.00	18.88
ATOM	13205	CB	SER	1965	37.939	-37.586	19.834	1.00	19.39
ATOM	13206	OG	SER	1965	38.736	-36.691	20.592	1.00	21.10
ATOM	13207	C	SER	1965	36.017	-37.179	21.354	1.00	17.02
ATOM	13208	O	SER	1965	36.122	-36.915	22.550	1.00	15.35
ATOM	13209	N	ASP	1966	35.156	-36.558	20.549	1.00	16.60
ATOM	13210	CA	ASP	1966	34.278	-35.509	21.071	1.00	17.92
ATOM	13211	CB	ASP	1966	33.404	-34.910	19.964	1.00	18.63
ATOM	13212	CG	ASP	1966	34.197	-34.078	18.974	1.00	19.16
ATOM	13213	OD1	ASP	1966	35.254	-33.536	19.352	1.00	24.28
ATOM	13214	OD2	ASP	1966	33.745	-33.954	17.819	1.00	20.44
ATOM	13215	C	ASP	1966	33.378	-36.061	22.170	1.00	15.95
ATOM	13216	O	ASP	1966	33.162	-35.409	23.194	1.00	15.58
ATOM	13217	N	ALA	1967	32.852	-37.263	21.955	1.00	15.46
ATOM	13218	CA	ALA	1967	31.980	-37.889	22.946	1.00	13.99
ATOM	13219	CB	ALA	1967	31.536	-39.264	22.454	1.00	13.81
ATOM	13220	C	ALA	1967	32.703	-38.012	24.280	1.00	14.10
ATOM	13221	O	ALA	1967	32.157	-37.674	25.333	1.00	14.44
ATOM	13222	N	LEU	1968	33.944	-38.490	24.240	1.00	13.09
ATOM	13223	CA	LEU	1968	34.724	-38.650	25.463	1.00	13.85
ATOM	13224	CB	LEU	1968	36.010	-39.434	25.164	1.00	14.52
ATOM	13225	CG	LEU	1968	35.805	-40.946	24.954	1.00	14.84
ATOM	13226	CD1	LEU	1968	37.006	-41.547	24.234	1.00	16.18
ATOM	13227	CD2	LEU	1968	35.599	-41.618	26.306	1.00	17.51
ATOM	13228	C	LEU	1968	35.062	-37.293	26.088	1.00	13.86
ATOM	13229	O	LEU	1968	35.056	-37.157	27.309	1.00	14.68
ATOM	13230	N	ALA	1969	35.342	-36.290	25.257	1.00	14.00
ATOM	13231	CA	ALA	1969	35.672	-34.957	25.769	1.00	14.01
ATOM	13232	CB	ALA	1969	36.150	-34.057	24.634	1.00	14.15
ATOM	13233	C	ALA	1969	34.468	-34.325	26.462	1.00	13.52
ATOM	13234	O	ALA	1969	34.609	-33.634	27.476	1.00	12.39
ATOM	13235	N	LEU	1970	33.283	-34.552	25.909	1.00	15.34
ATOM	13236	CA	LEU	1970	32.060	-34.005	26.502	1.00	14.25
ATOM	13237	CB	LEU	1970	30.869	-34.220	25.563	1.00	15.21
ATOM	13238	CG	LEU	1970	30.929	-33.394	24.272	1.00	16.66
ATOM	13239	CD1	LEU	1970	29.795	-33.811	23.329	1.00	17.51
ATOM	13240	CD2	LEU	1970	30.815	-31.913	24.610	1.00	16.43
ATOM	13241	C	LEU	1970	31.806	-34.661	27.848	1.00	13.96
ATOM	13242	O	LEU	1970	31.474	-33.982	28.824	1.00	12.41
ATOM	13243	N	GLU	1971	31.981	-35.980	27.907	1.00	12.89
ATOM	13244	CA	GLU	1971	31.787	-36.705	29.162	1.00	14.56
ATOM	13245	CB	GLU	1971	31.951	-38.224	28.945	1.00	16.29
ATOM	13246	CG	GLU	1971	31.840	-39.074	30.226	1.00	15.90
ATOM	13247	CD	GLU	1971	32.114	-40.557	29.981	1.00	15.83
ATOM	13248	OE1	GLU	1971	33.169	-40.888	29.415	1.00	18.88
ATOM	13249	OE2	GLU	1971	31.279	-41.392	30.358	1.00	19.45
ATOM	13250	C	GLU	1971	32.805	-36.207	30.195	1.00	15.16
ATOM	13251	O	GLU	1971	32.465	-35.965	31.353	1.00	13.13
ATOM	13252	N	ALA	1972	34.055	-36.039	29.774	1.00	14.67
ATOM	13253	CA	ALA	1972	35.087	-35.589	30.695	1.00	15.71
ATOM	13254	CB	ALA	1972	36.465	-35.643	30.015	1.00	15.78
ATOM	13255	C	ALA	1972	34.802	-34.181	31.192	1.00	15.67
ATOM	13256	O	ALA	1972	35.151	-33.832	32.323	1.00	17.06
ATOM	13257	N	ALA	1973	34.167	-33.377	30.342	1.00	16.83
ATOM	13258	CA	ALA	1973	33.826	-31.993	30.673	1.00	16.03
ATOM	13259	CB	ALA	1973	33.434	-31.243	29.399	1.00	17.16
ATOM	13260	C	ALA	1973	32.690	-31.924	31.694	1.00	16.25
ATOM	13261	O	ALA	1973	32.499	-30.900	32.354	1.00	16.68
ATOM	13262	N	GLY	1974	31.939	-33.013	31.824	1.00	15.27
ATOM	13263	CA	GLY	1974	30.857	-33.037	32.790	1.00	15.24
ATOM	13264	C	GLY	1974	29.473	-33.342	32.251	1.00	13.22
ATOM	13265	O	GLY	1974	28.498	-33.327	33.008	1.00	13.69
ATOM	13266	N	ALA	1975	29.357	-33.606	30.954	1.00	13.87
ATOM	13267	CA	ALA	1975	28.038	-33.927	30.396	1.00	12.92
ATOM	13268	CB	ALA	1975	28.126	-34.066	28.888	1.00	12.07
ATOM	13269	C	ALA	1975	27.581	-35.243	31.031	1.00	12.54
ATOM	13270	O	ALA	1975	28.364	-36.188	31.104	1.00	11.18
ATOM	13271	N	GLN	1976	26.330	-35.304	31.492	1.00	11.89
ATOM	13272	CA	GLN	1976	25.803	-36.514	32.132	1.00	11.40

ATOM	13273	CB	GLN	1976	25.009	-36.150	33.387	1.00	12.41
ATOM	13274	CG	GLN	1976	25.890	-35.701	34.561	1.00	15.82
ATOM	13275	CD	GLN	1976	25.091	-35.135	35.720	1.00	16.62
ATOM	13276	OE1	GLN	1976	24.747	-35.845	36.671	1.00	21.24
ATOM	13277	NE2	GLN	1976	24.784	-33.847	35.641	1.00	14.90
ATOM	13278	C	GLN	1976	24.931	-37.348	31.196	1.00	11.43
ATOM	13279	O	GLN	1976	24.407	-38.397	31.581	1.00	11.61
ATOM	13280	N	LEU	1977	24.780	-36.862	29.970	1.00	10.84
ATOM	13281	CA	LEU	1977	23.986	-37.533	28.957	1.00	12.72
ATOM	13282	CB	LEU	1977	22.510	-37.145	29.089	1.00	15.93
ATOM	13283	CG	LEU	1977	21.602	-38.134	29.806	1.00	21.02
ATOM	13284	CD1	LEU	1977	20.255	-37.461	30.072	1.00	21.00
ATOM	13285	CD2	LEU	1977	21.419	-39.379	28.955	1.00	23.10
ATOM	13286	C	LEU	1977	24.476	-37.130	27.588	1.00	11.33
ATOM	13287	O	LEU	1977	25.024	-36.050	27.414	1.00	12.24
ATOM	13288	N	LEU	1978	24.253	-38.004	26.614	1.00	11.93
ATOM	13289	CA	LEU	1978	24.673	-37.739	25.247	1.00	12.10
ATOM	13290	CB	LEU	1978	26.066	-38.341	25.001	1.00	13.29
ATOM	13291	CG	LEU	1978	26.488	-38.431	23.533	1.00	16.13
ATOM	13292	CD1	LEU	1978	26.589	-37.031	22.943	1.00	16.64
ATOM	13293	CD2	LEU	1978	27.819	-39.159	23.422	1.00	12.84
ATOM	13294	C	LEU	1978	23.688	-38.311	24.238	1.00	12.27
ATOM	13295	O	LEU	1978	23.223	-39.445	24.374	1.00	13.09
ATOM	13296	N	VAL	1979	23.356	-37.503	23.239	1.00	11.61
ATOM	13297	CA	VAL	1979	22.456	-37.911	22.159	1.00	10.55
ATOM	13298	CB	VAL	1979	21.370	-36.815	21.854	1.00	10.14
ATOM	13299	CG1	VAL	1979	20.708	-37.068	20.492	1.00	10.01
ATOM	13300	CG2	VAL	1979	20.321	-36.812	22.935	1.00	9.21
ATOM	13301	C	VAL	1979	23.333	-38.099	20.926	1.00	12.11
ATOM	13302	O	VAL	1979	24.206	-37.274	20.637	1.00	13.15
ATOM	13303	N	LEU	1980	23.119	-39.216	20.238	1.00	12.53
ATOM	13304	CA	LEU	1980	23.829	-39.547	19.009	1.00	14.61
ATOM	13305	CB	LEU	1980	24.510	-40.913	19.103	1.00	16.21
ATOM	13306	CG	LEU	1980	25.859	-41.049	19.799	1.00	21.32
ATOM	13307	CD1	LEU	1980	26.338	-42.498	19.648	1.00	17.71
ATOM	13308	CD2	LEU	1980	26.877	-40.094	19.170	1.00	18.47
ATOM	13309	C	LEU	1980	22.747	-39.616	17.946	1.00	15.13
ATOM	13310	O	LEU	1980	21.812	-40.411	18.060	1.00	12.67
ATOM	13311	N	GLU	1981	22.880	-38.786	16.916	1.00	14.35
ATOM	13312	CA	GLU	1981	21.897	-38.726	15.851	1.00	17.03
ATOM	13313	CB	GLU	1981	21.298	-37.314	15.799	1.00	15.90
ATOM	13314	CG	GLU	1981	20.445	-37.013	14.584	1.00	20.75
ATOM	13315	CD	GLU	1981	19.621	-35.740	14.747	1.00	23.90
ATOM	13316	OE1	GLU	1981	20.106	-34.784	15.389	1.00	25.09
ATOM	13317	OE2	GLU	1981	18.492	-35.692	14.221	1.00	26.95
ATOM	13318	C	GLU	1981	22.424	-39.120	14.479	1.00	17.13
ATOM	13319	O	GLU	1981	23.429	-38.590	14.007	1.00	18.47
ATOM	13320	N	CYS	1982	21.733	-40.065	13.849	1.00	17.94
ATOM	13321	CA	CYS	1982	22.080	-40.532	12.513	1.00	19.05
ATOM	13322	CB	CYS	1982	21.599	-39.505	11.489	1.00	18.86
ATOM	13323	SG	CYS	1982	19.782	-39.350	11.492	1.00	25.27
ATOM	13324	C	CYS	1982	23.554	-40.847	12.313	1.00	20.26
ATOM	13325	O	CYS	1982	24.276	-40.134	11.616	1.00	21.64
ATOM	13326	N	VAL	1983	23.980	-41.947	12.920	1.00	21.57
ATOM	13327	CA	VAL	1983	25.359	-42.399	12.844	1.00	22.20
ATOM	13328	CB	VAL	1983	26.087	-42.075	14.172	1.00	23.68
ATOM	13329	CG1	VAL	1983	25.549	-42.952	15.287	1.00	24.53
ATOM	13330	CG2	VAL	1983	27.573	-42.253	14.021	1.00	26.35
ATOM	13331	C	VAL	1983	25.351	-43.913	12.614	1.00	21.11
ATOM	13332	O	VAL	1983	24.415	-44.605	13.011	1.00	19.74
ATOM	13333	N	PRO	1984	26.382	-44.450	11.945	1.00	21.78
ATOM	13334	CD	PRO	1984	27.550	-43.820	11.312	1.00	23.46
ATOM	13335	CA	PRO	1984	26.390	-45.898	11.724	1.00	20.82
ATOM	13336	CB	PRO	1984	27.718	-46.130	10.992	1.00	23.68
ATOM	13337	CG	PRO	1984	28.555	-44.935	11.367	1.00	24.78
ATOM	13338	C	PRO	1984	26.296	-46.663	13.043	1.00	18.82
ATOM	13339	O	PRO	1984	26.897	-46.268	14.040	1.00	18.80
ATOM	13340	N	VAL	1985	25.536	-47.753	13.038	1.00	18.79
ATOM	13341	CA	VAL	1985	25.336	-48.578	14.225	1.00	19.02
ATOM	13342	CB	VAL	1985	24.558	-49.873	13.874	1.00	20.60
ATOM	13343	CG1	VAL	1985	24.312	-50.691	15.122	1.00	20.17
ATOM	13344	CG2	VAL	1985	23.236	-49.524	13.214	1.00	17.11
ATOM	13345	C	VAL	1985	26.634	-48.980	14.909	1.00	20.44
ATOM	13346	O	VAL	1985	26.732	-48.931	16.136	1.00	19.37
ATOM	13347	N	GLU	1986	27.630	-49.383	14.122	1.00	20.52
ATOM	13348	CA	GLU	1986	28.907	-49.800	14.692	1.00	21.16
ATOM	13349	CB	GLU	1986	29.858	-50.322	13.605	1.00	23.66

ATOM	13350	CG	GLU	1986	29.427	-50.073	12.168	1.00	30.18
ATOM	13351	CD	GLU	1986	28.118	-50.765	11.822	1.00	31.01
ATOM	13352	OE1	GLU	1986	27.968	-51.957	12.162	1.00	34.03
ATOM	13353	OE2	GLU	1986	27.251	-50.116	11.207	1.00	32.54
ATOM	13354	C	GLU	1986	29.578	-48.667	15.458	1.00	19.79
ATOM	13355	O	GLU	1986	30.215	-48.904	16.486	1.00	20.21
ATOM	13356	N	LEU	1987	29.435	-47.440	14.959	1.00	19.82
ATOM	13357	CA	LEU	1987	30.032	-46.288	15.629	1.00	19.57
ATOM	13358	CB	LEU	1987	29.973	-45.039	14.743	1.00	21.80
ATOM	13359	CG	LEU	1987	31.137	-44.044	14.841	1.00	24.62
ATOM	13360	CD1	LEU	1987	30.711	-42.719	14.230	1.00	24.77
ATOM	13361	CD2	LEU	1987	31.567	-43.849	16.275	1.00	27.37
ATOM	13362	C	LEU	1987	29.278	-46.015	16.930	1.00	19.16
ATOM	13363	O	LEU	1987	29.883	-45.704	17.957	1.00	19.07
ATOM	13364	N	ALA	1988	27.954	-46.129	16.879	1.00	17.69
ATOM	13365	CA	ALA	1988	27.123	-45.908	18.056	1.00	16.77
ATOM	13366	CB	ALA	1988	25.645	-46.063	17.695	1.00	18.29
ATOM	13367	C	ALA	1988	27.510	-46.919	19.131	1.00	17.28
ATOM	13368	O	ALA	1988	27.506	-46.608	20.329	1.00	15.24
ATOM	13369	N	LYS	1989	27.846	-48.130	18.692	1.00	18.47
ATOM	13370	CA	LYS	1989	28.263	-49.203	19.598	1.00	20.98
ATOM	13371	CB	LYS	1989	28.561	-50.493	18.821	1.00	25.15
ATOM	13372	CG	LYS	1989	27.483	-50.977	17.875	1.00	30.44
ATOM	13373	CD	LYS	1989	27.979	-52.169	17.038	1.00	33.35
ATOM	13374	CE	LYS	1989	26.964	-52.561	15.968	1.00	34.91
ATOM	13375	NZ	LYS	1989	27.496	-53.556	15.000	1.00	37.47
ATOM	13376	C	LYS	1989	29.551	-48.784	20.300	1.00	19.44
ATOM	13377	O	LYS	1989	29.656	-48.853	21.523	1.00	20.34
ATOM	13378	N	ARG	1990	30.530	-48.361	19.503	1.00	18.82
ATOM	13379	CA	ARG	1990	31.833	-47.951	20.017	1.00	18.71
ATOM	13380	CB	ARG	1990	32.735	-47.459	18.872	1.00	23.33
ATOM	13381	CG	ARG	1990	34.237	-47.609	19.159	1.00	28.11
ATOM	13382	CD	ARG	1990	35.120	-46.751	18.249	1.00	31.00
ATOM	13383	NE	ARG	1990	34.739	-46.823	16.841	1.00	33.95
ATOM	13384	CZ	ARG	1990	35.335	-46.132	15.871	1.00	34.97
ATOM	13385	NH1	ARG	1990	36.345	-45.320	16.155	1.00	34.80
ATOM	13386	NH2	ARG	1990	34.910	-46.239	14.619	1.00	35.67
ATOM	13387	C	ARG	1990	31.691	-46.848	21.058	1.00	17.38
ATOM	13388	O	ARG	1990	32.299	-46.901	22.125	1.00	16.41
ATOM	13389	N	ILE	1991	30.878	-45.847	20.744	1.00	15.72
ATOM	13390	CA	ILE	1991	30.660	-44.718	21.647	1.00	14.45
ATOM	13391	CB	ILE	1991	29.908	-43.586	20.897	1.00	13.43
ATOM	13392	CG2	ILE	1991	29.506	-42.468	21.887	1.00	15.10
ATOM	13393	CG1	ILE	1991	30.797	-43.074	19.767	1.00	13.76
ATOM	13394	CD1	ILE	1991	30.233	-41.892	18.986	1.00	15.99
ATOM	13395	C	ILE	1991	29.916	-45.087	22.933	1.00	13.45
ATOM	13396	O	ILE	1991	30.302	-44.674	24.029	1.00	14.39
ATOM	13397	N	THR	1992	28.856	-45.877	22.799	1.00	13.96
ATOM	13398	CA	THR	1992	28.083	-46.288	23.964	1.00	13.15
ATOM	13399	CB	THR	1992	26.814	-47.044	23.547	1.00	13.12
ATOM	13400	OG1	THR	1992	26.016	-46.196	22.708	1.00	13.87
ATOM	13401	CG2	THR	1992	25.991	-47.432	24.779	1.00	12.06
ATOM	13402	C	THR	1992	28.897	-47.153	24.922	1.00	16.80
ATOM	13403	O	THR	1992	28.761	-47.043	26.142	1.00	15.55
ATOM	13404	N	GLU	1993	29.755	-48.007	24.375	1.00	18.05
ATOM	13405	CA	GLU	1993	30.576	-48.869	25.219	1.00	19.12
ATOM	13406	CB	GLU	1993	31.088	-50.069	24.413	1.00	21.19
ATOM	13407	CG	GLU	1993	29.992	-50.833	23.681	1.00	26.97
ATOM	13408	CD	GLU	1993	30.495	-52.105	23.018	1.00	29.74
ATOM	13409	OE1	GLU	1993	31.684	-52.156	22.646	1.00	32.85
ATOM	13410	OE2	GLU	1993	29.695	-53.050	22.856	1.00	31.62
ATOM	13411	C	GLU	1993	31.761	-48.077	25.783	1.00	19.25
ATOM	13412	O	GLU	1993	32.323	-48.440	26.814	1.00	20.28
ATOM	13413	N	ALA	1994	32.130	-46.989	25.115	1.00	17.41
ATOM	13414	CA	ALA	1994	33.252	-46.178	25.564	1.00	18.10
ATOM	13415	CB	ALA	1994	33.820	-45.383	24.398	1.00	18.09
ATOM	13416	C	ALA	1994	32.888	-45.234	26.703	1.00	18.12
ATOM	13417	O	ALA	1994	33.716	-44.928	27.565	1.00	19.20
ATOM	13418	N	LEU	1995	31.645	-44.770	26.708	1.00	17.31
ATOM	13419	CA	LEU	1995	31.192	-43.841	27.741	1.00	17.19
ATOM	13420	CB	LEU	1995	30.222	-42.821	27.145	1.00	17.68
ATOM	13421	CG	LEU	1995	30.754	-41.776	26.173	1.00	18.73
ATOM	13422	CD1	LEU	1995	29.641	-40.764	25.924	1.00	12.73
ATOM	13423	CD2	LEU	1995	31.976	-41.083	26.718	1.00	24.11
ATOM	13424	C	LEU	1995	30.514	-44.507	28.924	1.00	15.56
ATOM	13425	O	LEU	1995	29.807	-45.496	28.766	1.00	17.28
ATOM	13426	N	ALA	1996	30.739	-43.942	30.106	1.00	15.73

ATOM	13427	CA	ALA	1996	30.128	-44.435	31.324	1.00	15.27
ATOM	13428	CB	ALA	1996	30.946	-44.020	32.541	1.00	15.65
ATOM	13429	C	ALA	1996	28.727	-43.836	31.402	1.00	14.70
ATOM	13430	O	ALA	1996	27.795	-44.485	31.871	1.00	14.43
ATOM	13431	N	ILE	1997	28.575	-42.595	30.934	1.00	14.99
ATOM	13432	CA	ILE	1997	27.266	-41.939	30.946	1.00	13.59
ATOM	13433	CB	ILE	1997	27.372	-40.419	30.633	1.00	13.71
ATOM	13434	CG2	ILE	1997	28.184	-39.710	31.721	1.00	10.02
ATOM	13435	CG1	ILE	1997	27.993	-40.211	29.249	1.00	11.88
ATOM	13436	CD1	ILE	1997	28.068	-38.736	28.834	1.00	13.96
ATOM	13437	C	ILE	1997	26.337	-42.565	29.909	1.00	12.60
ATOM	13438	O	ILE	1997	26.786	-43.173	28.935	1.00	12.53
ATOM	13439	N	PRO	1998	25.018	-42.431	30.111	1.00	13.25
ATOM	13440	CD	PRO	1998	24.297	-41.930	31.296	1.00	10.70
ATOM	13441	CA	PRO	1998	24.106	-43.019	29.128	1.00	12.65
ATOM	13442	CB	PRO	1998	22.745	-42.952	29.824	1.00	13.84
ATOM	13443	CG	PRO	1998	22.895	-41.813	30.788	1.00	18.97
ATOM	13444	C	PRO	1998	24.117	-42.292	27.784	1.00	12.72
ATOM	13445	O	PRO	1998	24.340	-41.081	27.718	1.00	12.80
ATOM	13446	N	VAL	1999	23.890	-43.053	26.721	1.00	11.68
ATOM	13447	CA	VAL	1999	23.850	-42.507	25.376	1.00	13.14
ATOM	13448	CB	VAL	1999	24.972	-43.123	24.507	1.00	14.39
ATOM	13449	CG1	VAL	1999	24.829	-42.664	23.061	1.00	13.88
ATOM	13450	CG2	VAL	1999	26.338	-42.685	25.062	1.00	13.61
ATOM	13451	C	VAL	1999	22.483	-42.815	24.784	1.00	12.68
ATOM	13452	O	VAL	1999	22.064	-43.969	24.753	1.00	11.67
ATOM	13453	N	ILE	2000	21.788	-41.768	24.346	1.00	12.00
ATOM	13454	CA	ILE	2000	20.449	-41.870	23.772	1.00	10.42
ATOM	13455	CB	ILE	2000	19.527	-40.764	24.362	1.00	11.32
ATOM	13456	CG2	ILE	2000	18.190	-40.765	23.645	1.00	14.54
ATOM	13457	CG1	ILE	2000	19.350	-40.977	25.869	1.00	12.67
ATOM	13458	CD1	ILE	2000	18.671	-39.808	26.580	1.00	14.64
ATOM	13459	C	ILE	2000	20.562	-41.667	22.265	1.00	11.37
ATOM	13460	O	ILE	2000	21.140	-40.682	21.814	1.00	12.18
ATOM	13461	N	GLY	2001	20.021	-42.595	21.486	1.00	9.93
ATOM	13462	CA	GLY	2001	20.124	-42.462	20.048	1.00	10.42
ATOM	13463	C	GLY	2001	18.845	-42.223	19.274	1.00	10.95
ATOM	13464	O	GLY	2001	17.735	-42.486	19.742	1.00	10.35
ATOM	13465	N	ILE	2002	19.024	-41.667	18.085	1.00	12.38
ATOM	13466	CA	ILE	2002	17.945	-41.430	17.149	1.00	12.82
ATOM	13467	CB	ILE	2002	17.347	-39.975	17.254	1.00	15.11
ATOM	13468	CG2	ILE	2002	18.439	-38.929	17.272	1.00	17.13
ATOM	13469	CG1	ILE	2002	16.384	-39.726	16.101	1.00	16.48
ATOM	13470	CD1	ILE	2002	15.206	-40.620	16.103	1.00	21.78
ATOM	13471	C	ILE	2002	18.652	-41.700	15.832	1.00	14.25
ATOM	13472	O	ILE	2002	19.612	-41.019	15.465	1.00	14.32
ATOM	13473	N	GLY	2003	18.202	-42.745	15.145	1.00	13.78
ATOM	13474	CA	GLY	2003	18.839	-43.124	13.902	1.00	13.18
ATOM	13475	C	GLY	2003	20.243	-43.651	14.160	1.00	13.92
ATOM	13476	O	GLY	2003	21.108	-43.548	13.293	1.00	16.63
ATOM	13477	N	ALA	2004	20.485	-44.208	15.347	1.00	14.85
ATOM	13478	CA	ALA	2004	21.803	-44.758	15.677	1.00	15.30
ATOM	13479	CB	ALA	2004	22.427	-43.972	16.832	1.00	16.97
ATOM	13480	C	ALA	2004	21.732	-46.247	16.031	1.00	15.54
ATOM	13481	O	ALA	2004	22.688	-46.814	16.565	1.00	18.51
ATOM	13482	N	GLY	2005	20.598	-46.880	15.741	1.00	16.16
ATOM	13483	CA	GLY	2005	20.448	-48.302	16.033	1.00	14.60
ATOM	13484	C	GLY	2005	20.079	-48.614	17.473	1.00	15.86
ATOM	13485	O	GLY	2005	20.022	-47.717	18.311	1.00	16.19
ATOM	13486	N	ASN	2006	19.843	-49.891	17.773	1.00	14.74
ATOM	13487	CA	ASN	2006	19.454	-50.290	19.130	1.00	14.82
ATOM	13488	CB	ASN	2006	18.552	-51.530	19.083	1.00	14.04
ATOM	13489	CG	ASN	2006	19.300	-52.803	18.712	1.00	12.52
ATOM	13490	OD1	ASN	2006	18.768	-53.901	18.870	1.00	16.70
ATOM	13491	ND2	ASN	2006	20.521	-52.668	18.222	1.00	12.06
ATOM	13492	C	ASN	2006	20.610	-50.548	20.094	1.00	14.16
ATOM	13493	O	ASN	2006	20.403	-51.082	21.183	1.00	15.13
ATOM	13494	N	VAL	2007	21.817	-50.153	19.703	1.00	14.84
ATOM	13495	CA	VAL	2007	23.002	-50.358	20.534	1.00	16.00
ATOM	13496	CB	VAL	2007	24.277	-50.349	19.677	1.00	18.48
ATOM	13497	CG1	VAL	2007	25.448	-50.869	20.490	1.00	25.46
ATOM	13498	CG2	VAL	2007	24.073	-51.178	18.421	1.00	22.41
ATOM	13499	C	VAL	2007	23.167	-49.310	21.639	1.00	16.08
ATOM	13500	O	VAL	2007	23.970	-49.486	22.557	1.00	14.39
ATOM	13501	N	THR	2008	22.418	-48.215	21.549	1.00	13.91
ATOM	13502	CA	THR	2008	22.509	-47.158	22.557	1.00	13.64
ATOM	13503	CB	THR	2008	21.997	-45.809	21.980	1.00	12.91



ATOM	13504	OG1	THR	2008	20.692	-45.980	21.412	1.00	13.88
ATOM	13505	CG2	THR	2008	22.941	-45.303	20.901	1.00	14.51
ATOM	13506	C	THR	2008	21.743	-47.523	23.839	1.00	13.63
ATOM	13507	O	THR	2008	20.956	-48.470	23.847	1.00	15.42
ATOM	13508	N	ASP	2009	21.993	-46.796	24.925	1.00	13.00
ATOM	13509	CA	ASP	2009	21.329	-47.071	26.205	1.00	12.92
ATOM	13510	CB	ASP	2009	22.064	-46.350	27.337	1.00	13.27
ATOM	13511	CG	ASP	2009	23.552	-46.681	27.365	1.00	14.17
ATOM	13512	OD1	ASP	2009	23.898	-47.849	27.650	1.00	15.47
ATOM	13513	OD2	ASP	2009	24.362	-45.779	27.093	1.00	14.16
ATOM	13514	C	ASP	2009	19.859	-46.652	26.208	1.00	13.92
ATOM	13515	O	ASP	2009	19.035	-47.205	26.943	1.00	14.59
ATOM	13516	N	GLY	2010	19.542	-45.658	25.387	1.00	14.50
ATOM	13517	CA	GLY	2010	18.173	-45.181	25.300	1.00	13.29
ATOM	13518	C	GLY	2010	17.829	-44.764	23.878	1.00	11.32
ATOM	13519	O	GLY	2010	18.700	-44.728	23.008	1.00	11.26
ATOM	13520	N	GLN	2011	16.562	-44.437	23.644	1.00	11.11
ATOM	13521	CA	GLN	2011	16.095	-44.032	22.325	1.00	10.95
ATOM	13522	CB	GLN	2011	15.215	-45.121	21.706	1.00	12.17
ATOM	13523	CG	GLN	2011	15.926	-46.426	21.378	1.00	10.38
ATOM	13524	CD	GLN	2011	16.987	-46.262	20.303	1.00	9.79
ATOM	13525	OE1	GLN	2011	16.812	-45.508	19.344	1.00	12.91
ATOM	13526	NE2	GLN	2011	18.086	-46.986	20.445	1.00	12.26
ATOM	13527	C	GLN	2011	15.254	-42.775	22.417	1.00	11.93
ATOM	13528	O	GLN	2011	14.646	-42.495	23.451	1.00	9.84
ATOM	13529	N	ILE	2012	15.208	-42.023	21.327	1.00	13.12
ATOM	13530	CA	ILE	2012	14.384	-40.835	21.307	1.00	16.32
ATOM	13531	CB	ILE	2012	15.228	-39.563	21.592	1.00	20.21
ATOM	13532	CG2	ILE	2012	16.164	-39.278	20.451	1.00	19.95
ATOM	13533	CG1	ILE	2012	14.302	-38.372	21.851	1.00	22.75
ATOM	13534	CD1	ILE	2012	14.955	-37.275	22.672	1.00	20.84
ATOM	13535	C	ILE	2012	13.700	-40.764	19.951	1.00	18.75
ATOM	13536	O	ILE	2012	14.243	-41.208	18.939	1.00	17.43
ATOM	13537	N	LEU	2013	12.479	-40.250	19.942	1.00	19.42
ATOM	13538	CA	LEU	2013	11.746	-40.110	18.700	1.00	23.65
ATOM	13539	CB	LEU	2013	10.914	-41.356	18.419	1.00	26.87
ATOM	13540	CG	LEU	2013	11.228	-42.102	17.114	1.00	28.56
ATOM	13541	CD1	LEU	2013	10.179	-43.189	16.952	1.00	27.78
ATOM	13542	CD2	LEU	2013	11.206	-41.148	15.900	1.00	28.97
ATOM	13543	C	LEU	2013	10.835	-38.903	18.751	1.00	24.10
ATOM	13544	O	LEU	2013	10.387	-38.489	19.830	1.00	19.94
ATOM	13545	N	VAL	2014	10.588	-38.337	17.573	1.00	23.42
ATOM	13546	CA	VAL	2014	9.714	-37.186	17.420	1.00	22.95
ATOM	13547	CB	VAL	2014	9.892	-36.500	16.039	1.00	25.08
ATOM	13548	CG1	VAL	2014	8.905	-35.340	15.907	1.00	25.84
ATOM	13549	CG2	VAL	2014	11.312	-35.989	15.898	1.00	29.40
ATOM	13550	C	VAL	2014	8.310	-37.732	17.499	1.00	19.50
ATOM	13551	O	VAL	2014	7.917	-38.578	16.688	1.00	17.37
ATOM	13552	N	MET	2015	7.563	-37.258	18.488	1.00	16.88
ATOM	13553	CA	MET	2015	6.199	-37.712	18.687	1.00	15.75
ATOM	13554	CB	MET	2015	5.567	-37.024	19.913	1.00	13.34
ATOM	13555	CG	MET	2015	5.461	-35.519	19.841	1.00	14.95
ATOM	13556	SD	MET	2015	3.933	-34.982	20.657	1.00	14.22
ATOM	13557	CE	MET	2015	2.778	-35.272	19.370	1.00	13.27
ATOM	13558	C	MET	2015	5.340	-37.485	17.451	1.00	15.30
ATOM	13559	O	MET	2015	4.460	-38.288	17.150	1.00	16.99
ATOM	13560	N	HIS	2016	5.602	-36.411	16.714	1.00	12.72
ATOM	13561	CA	HIS	2016	4.804	-36.144	15.527	1.00	15.08
ATOM	13562	CB	HIS	2016	5.115	-34.739	15.005	1.00	15.69
ATOM	13563	CG	HIS	2016	4.605	-33.664	15.915	1.00	14.26
ATOM	13564	CD2	HIS	2016	5.132	-33.129	17.043	1.00	11.38
ATOM	13565	ND1	HIS	2016	3.330	-33.146	15.808	1.00	15.21
ATOM	13566	CE1	HIS	2016	3.092	-32.345	16.833	1.00	13.82
ATOM	13567	NE2	HIS	2016	4.170	-32.318	17.598	1.00	16.57
ATOM	13568	C	HIS	2016	4.989	-37.221	14.462	1.00	16.85
ATOM	13569	O	HIS	2016	4.085	-37.462	13.658	1.00	17.99
ATOM	13570	N	ASP	2017	6.143	-37.883	14.455	1.00	17.44
ATOM	13571	CA	ASP	2017	6.359	-38.967	13.495	1.00	22.03
ATOM	13572	CB	ASP	2017	7.850	-39.142	13.177	1.00	23.41
ATOM	13573	CG	ASP	2017	8.440	-37.954	12.431	1.00	27.95
ATOM	13574	OD1	ASP	2017	7.857	-37.548	11.409	1.00	27.29
ATOM	13575	OD2	ASP	2017	9.488	-37.442	12.873	1.00	26.63
ATOM	13576	C	ASP	2017	5.817	-40.278	14.079	1.00	21.90
ATOM	13577	O	ASP	2017	5.254	-41.105	13.357	1.00	23.38
ATOM	13578	N	ALA	2018	5.986	-40.454	15.388	1.00	22.26
ATOM	13579	CA	ALA	2018	5.538	-41.661	16.083	1.00	22.32
ATOM	13580	CB	ALA	2018	5.940	-41.585	17.559	1.00	23.61

ATOM	13581	C	ALA	2018	4.037	-41.923	15.959	1.00	24.21
ATOM	13582	O	ALA	2018	3.597	-43.064	16.085	1.00	25.32
ATOM	13583	N	PHE	2019	3.255	-40.871	15.711	1.00	21.91
ATOM	13584	CA	PHE	2019	1.807	-41.011	15.561	1.00	22.15
ATOM	13585	CB	PHE	2019	1.080	-40.151	16.596	1.00	23.71
ATOM	13586	CG	PHE	2019	1.580	-40.355	17.999	1.00	24.13
ATOM	13587	CD1	PHE	2019	1.717	-41.638	18.516	1.00	24.21
ATOM	13588	CD2	PHE	2019	1.935	-39.271	18.795	1.00	25.21
ATOM	13589	CE1	PHE	2019	2.207	-41.843	19.807	1.00	25.08
ATOM	13590	CE2	PHE	2019	2.426	-39.463	20.091	1.00	25.89
ATOM	13591	CZ	PHE	2019	2.561	-40.752	20.593	1.00	26.24
ATOM	13592	C	PHE	2019	1.329	-40.637	14.155	1.00	21.96
ATOM	13593	O	PHE	2019	0.156	-40.325	13.947	1.00	22.51
ATOM	13594	N	GLY	2020	2.243	-40.658	13.194	1.00	23.05
ATOM	13595	CA	GLY	2020	1.879	-40.328	11.829	1.00	24.29
ATOM	13596	C	GLY	2020	1.192	-38.985	11.660	1.00	23.30
ATOM	13597	O	GLY	2020	0.433	-38.791	10.706	1.00	24.31
ATOM	13598	N	ILE	2021	1.445	-38.049	12.570	1.00	22.12
ATOM	13599	CA	ILE	2021	0.822	-36.731	12.466	1.00	19.93
ATOM	13600	CB	ILE	2021	0.976	-35.919	13.792	1.00	18.55
ATOM	13601	CG2	ILE	2021	0.483	-34.500	13.595	1.00	18.65
ATOM	13602	CG1	ILE	2021	0.168	-36.590	14.912	1.00	17.73
ATOM	13603	CD1	ILE	2021	0.485	-36.084	16.319	1.00	15.80
ATOM	13604	C	ILE	2021	1.447	-35.961	11.300	1.00	20.77
ATOM	13605	O	ILE	2021	0.738	-35.348	10.502	1.00	18.99
ATOM	13606	N	THR	2022	2.771	-36.008	11.194	1.00	22.40
ATOM	13607	CA	THR	2022	3.473	-35.313	10.120	1.00	25.87
ATOM	13608	CB	THR	2022	4.985	-35.269	10.385	1.00	27.00
ATOM	13609	OG1	THR	2022	5.517	-36.600	10.373	1.00	32.73
ATOM	13610	CG2	THR	2022	5.262	-34.641	11.735	1.00	26.74
ATOM	13611	C	THR	2022	3.240	-35.978	8.765	1.00	27.71
ATOM	13612	O	THR	2022	3.208	-37.208	8.663	1.00	26.18
ATOM	13613	N	GLY	2023	3.078	-35.147	7.738	1.00	29.75
ATOM	13614	CA	GLY	2023	2.854	-35.620	6.381	1.00	36.68
ATOM	13615	C	GLY	2023	2.624	-37.111	6.213	1.00	40.05
ATOM	13616	O	GLY	2023	1.665	-37.666	6.754	1.00	41.97
ATOM	13617	N	GLY	2024	3.503	-37.765	5.458	1.00	41.61
ATOM	13618	CA	GLY	2024	3.364	-39.194	5.240	1.00	43.00
ATOM	13619	C	GLY	2024	4.675	-39.899	4.961	1.00	43.33
ATOM	13620	O	GLY	2024	4.750	-41.125	5.012	1.00	44.64
ATOM	13621	N	HIS	2025	5.712	-39.125	4.664	1.00	42.93
ATOM	13622	CA	HIS	2025	7.031	-39.680	4.374	1.00	42.66
ATOM	13623	CB	HIS	2025	7.622	-38.976	3.151	1.00	46.48
ATOM	13624	CG	HIS	2025	7.432	-37.489	3.161	1.00	50.68
ATOM	13625	CD2	HIS	2025	6.729	-36.676	2.337	1.00	52.17
ATOM	13626	ND1	HIS	2025	8.001	-36.669	4.112	1.00	52.20
ATOM	13627	CE1	HIS	2025	7.660	-35.415	3.872	1.00	52.74
ATOM	13628	NE2	HIS	2025	6.888	-35.392	2.801	1.00	53.69
ATOM	13629	C	HIS	2025	7.983	-39.548	5.563	1.00	39.08
ATOM	13630	O	HIS	2025	8.882	-38.709	5.552	1.00	38.93
ATOM	13631	N	ILE	2026	7.790	-40.381	6.582	1.00	35.71
ATOM	13632	CA	ILE	2026	8.638	-40.330	7.771	1.00	32.13
ATOM	13633	CB	ILE	2026	8.040	-41.148	8.927	1.00	33.92
ATOM	13634	CG2	ILE	2026	6.670	-40.599	9.305	1.00	35.60
ATOM	13635	CG1	ILE	2026	7.952	-42.620	8.522	1.00	33.22
ATOM	13636	CD1	ILE	2026	7.704	-43.554	9.685	1.00	34.59
ATOM	13637	C	ILE	2026	10.045	-40.857	7.509	1.00	27.67
ATOM	13638	O	ILE	2026	10.252	-41.720	6.652	1.00	27.84
ATOM	13639	N	PRO	2027	11.035	-40.346	8.256	1.00	25.23
ATOM	13640	CD	PRO	2027	10.945	-39.349	9.333	1.00	23.72
ATOM	13641	CA	PRO	2027	12.417	-40.793	8.075	1.00	23.00
ATOM	13642	CB	PRO	2027	13.189	-39.972	9.111	1.00	24.44
ATOM	13643	CG	PRO	2027	12.159	-39.676	10.159	1.00	26.02
ATOM	13644	C	PRO	2027	12.596	-42.299	8.266	1.00	21.46
ATOM	13645	O	PRO	2027	11.814	-42.950	8.964	1.00	18.01
ATOM	13646	N	LYS	2028	13.638	-42.840	7.642	1.00	21.15
ATOM	13647	CA	LYS	2028	13.928	-44.266	7.722	1.00	22.60
ATOM	13648	CB	LYS	2028	15.189	-44.607	6.914	1.00	25.69
ATOM	13649	CG	LYS	2028	14.946	-44.928	5.441	1.00	33.29
ATOM	13650	CD	LYS	2028	14.455	-43.717	4.653	1.00	36.85
ATOM	13651	CE	LYS	2028	14.326	-44.047	3.170	1.00	40.01
ATOM	13652	NZ	LYS	2028	14.001	-42.848	2.343	1.00	41.13
ATOM	13653	C	LYS	2028	14.109	-44.767	9.146	1.00	20.12
ATOM	13654	O	LYS	2028	13.751	-45.901	9.448	1.00	19.79
ATOM	13655	N	PHE	2029	14.656	-43.926	10.020	1.00	18.98
ATOM	13656	CA	PHE	2029	14.904	-44.337	11.400	1.00	17.08
ATOM	13657	CB	PHE	2029	16.031	-43.494	11.994	1.00	16.61

ATOM	13658	CG	PHE	2029	15.756	-42.027	11.973	1.00	18.88
ATOM	13659	CD1	PHE	2029	14.872	-41.459	12.882	1.00	18.51
ATOM	13660	CD2	PHE	2029	16.353	-41.211	11.014	1.00	18.71
ATOM	13661	CE1	PHE	2029	14.585	-40.097	12.842	1.00	19.42
ATOM	13662	CE2	PHE	2029	16.072	-39.846	10.961	1.00	19.33
ATOM	13663	CZ	PHE	2029	15.187	-39.288	11.875	1.00	19.51
ATOM	13664	C	PHE	2029	13.683	-44.279	12.313	1.00	14.56
ATOM	13665	O	PHE	2029	13.732	-44.765	13.435	1.00	12.75
ATOM	13666	N	ALA	2030	12.587	-43.706	11.822	1.00	13.77
ATOM	13667	CA	ALA	2030	11.374	-43.579	12.615	1.00	13.91
ATOM	13668	CB	ALA	2030	10.752	-42.221	12.387	1.00	14.25
ATOM	13669	C	ALA	2030	10.336	-44.661	12.345	1.00	15.51
ATOM	13670	O	ALA	2030	10.415	-45.389	11.356	1.00	14.24
ATOM	13671	N	LYS	2031	9.360	-44.751	13.243	1.00	13.26
ATOM	13672	CA	LYS	2031	8.287	-45.713	13.122	1.00	13.53
ATOM	13673	CB	LYS	2031	8.599	-46.980	13.924	1.00	13.73
ATOM	13674	CG	LYS	2031	7.469	-48.008	13.894	1.00	13.98
ATOM	13675	CD	LYS	2031	7.871	-49.321	14.566	1.00	15.44
ATOM	13676	CE	LYS	2031	6.659	-50.206	14.782	1.00	17.20
ATOM	13677	NZ	LYS	2031	7.004	-51.532	15.354	1.00	18.85
ATOM	13678	C	LYS	2031	6.996	-45.096	13.625	1.00	13.24
ATOM	13679	O	LYS	2031	6.981	-44.383	14.633	1.00	12.44
ATOM	13680	N	ASN	2032	5.915	-45.359	12.900	1.00	13.87
ATOM	13681	CA	ASN	2032	4.594	-44.866	13.272	1.00	14.13
ATOM	13682	CB	ASN	2032	3.746	-44.625	12.015	1.00	15.58
ATOM	13683	CG	ASN	2032	2.318	-44.218	12.336	1.00	17.14
ATOM	13684	OD1	ASN	2032	1.846	-44.384	13.465	1.00	18.37
ATOM	13685	ND2	ASN	2032	1.614	-43.699	11.338	1.00	15.68
ATOM	13686	C	ASN	2032	3.964	-45.964	14.124	1.00	14.09
ATOM	13687	O	ASN	2032	3.512	-46.987	13.594	1.00	13.04
ATOM	13688	N	PHE	2033	3.955	-45.760	15.435	1.00	11.21
ATOM	13689	CA	PHE	2033	3.382	-46.733	16.370	1.00	13.08
ATOM	13690	CB	PHE	2033	3.967	-46.540	17.778	1.00	13.19
ATOM	13691	CG	PHE	2033	5.412	-46.946	17.888	1.00	13.28
ATOM	13692	CD1	PHE	2033	6.430	-46.051	17.569	1.00	13.02
ATOM	13693	CD2	PHE	2033	5.754	-48.254	18.240	1.00	12.37
ATOM	13694	CE1	PHE	2033	7.773	-46.446	17.587	1.00	14.04
ATOM	13695	CE2	PHE	2033	7.091	-48.663	18.262	1.00	11.80
ATOM	13696	CZ	PHE	2033	8.106	-47.756	17.934	1.00	12.01
ATOM	13697	C	PHE	2033	1.864	-46.643	16.421	1.00	14.14
ATOM	13698	O	PHE	2033	1.183	-47.603	16.788	1.00	15.64
ATOM	13699	N	LEU	2034	1.315	-45.493	16.054	1.00	13.12
ATOM	13700	CA	LEU	2034	-0.135	-45.372	16.075	1.00	14.61
ATOM	13701	CB	LEU	2034	-0.566	-43.933	15.780	1.00	15.30
ATOM	13702	CG	LEU	2034	-2.088	-43.744	15.737	1.00	15.00
ATOM	13703	CD1	LEU	2034	-2.712	-44.235	17.047	1.00	17.20
ATOM	13704	CD2	LEU	2034	-2.419	-42.283	15.484	1.00	15.32
ATOM	13705	C	LEU	2034	-0.741	-46.331	15.039	1.00	16.57
ATOM	13706	O	LEU	2034	-1.736	-47.004	15.313	1.00	14.84
ATOM	13707	N	ALA	2035	-0.132	-46.390	13.858	1.00	20.33
ATOM	13708	CA	ALA	2035	-0.603	-47.266	12.783	1.00	27.79
ATOM	13709	CB	ALA	2035	0.385	-47.238	11.614	1.00	29.37
ATOM	13710	C	ALA	2035	-0.790	-48.700	13.269	1.00	33.38
ATOM	13711	O	ALA	2035	-1.530	-49.483	12.664	1.00	36.55
ATOM	13712	N	GLU	2036	-0.117	-49.036	14.366	1.00	37.14
ATOM	13713	CA	GLU	2036	-0.194	-50.373	14.954	1.00	41.95
ATOM	13714	CB	GLU	2036	0.893	-50.541	16.026	1.00	42.91
ATOM	13715	CG	GLU	2036	2.290	-50.150	15.573	1.00	47.48
ATOM	13716	CD	GLU	2036	2.844	-51.058	14.493	1.00	49.09
ATOM	13717	OE1	GLU	2036	3.892	-50.704	13.909	1.00	50.73
ATOM	13718	OE2	GLU	2036	2.240	-52.125	14.231	1.00	51.86
ATOM	13719	C	GLU	2036	-1.561	-50.605	15.591	1.00	43.11
ATOM	13720	O	GLU	2036	-1.915	-51.740	15.916	1.00	44.60
ATOM	13721	N	THR	2037	-2.313	-49.520	15.770	1.00	43.75
ATOM	13722	CA	THR	2037	-3.647	-49.569	16.372	1.00	43.51
ATOM	13723	CB	THR	2037	-3.554	-49.742	17.894	1.00	44.86
ATOM	13724	OG1	THR	2037	-4.872	-49.832	18.452	1.00	46.90
ATOM	13725	CG2	THR	2037	-2.821	-48.567	18.513	1.00	47.17
ATOM	13726	C	THR	2037	-4.422	-48.283	16.075	1.00	41.90
ATOM	13727	O	THR	2037	-4.206	-47.644	15.046	1.00	43.72
ATOM	13728	N	GLY	2038	-5.330	-47.916	16.976	1.00	38.86
ATOM	13729	CA	GLY	2038	-6.107	-46.700	16.809	1.00	32.91
ATOM	13730	C	GLY	2038	-6.187	-45.946	18.123	1.00	29.01
ATOM	13731	O	GLY	2038	-7.129	-45.193	18.383	1.00	29.97
ATOM	13732	N	ASP	2039	-5.184	-46.157	18.964	1.00	23.77
ATOM	13733	CA	ASP	2039	-5.134	-45.510	20.271	1.00	19.97
ATOM	13734	CB	ASP	2039	-5.582	-46.503	21.353	1.00	23.10

ATOM	13735	CG	ASP	2039	-5.458	-45.935	22.755	1.00	26.45
ATOM	13736	OD1	ASP	2039	-4.352	-45.993	23.316	1.00	25.80
ATOM	13737	OD2	ASP	2039	-6.466	-45.412	23.284	1.00	33.68
ATOM	13738	C	ASP	2039	-3.709	-45.026	20.528	1.00	15.18
ATOM	13739	O	ASP	2039	-2.770	-45.814	20.510	1.00	11.93
ATOM	13740	N	ILE	2040	-3.562	-43.725	20.762	1.00	14.13
ATOM	13741	CA	ILE	2040	-2.256	-43.121	20.989	1.00	12.51
ATOM	13742	CB	ILE	2040	-2.379	-41.579	21.053	1.00	12.90
ATOM	13743	CG2	ILE	2040	-1.046	-40.954	21.421	1.00	12.00
ATOM	13744	CG1	ILE	2040	-2.842	-41.052	19.689	1.00	13.88
ATOM	13745	CD1	ILE	2040	-3.192	-39.555	19.673	1.00	14.99
ATOM	13746	C	ILE	2040	-1.544	-43.645	22.234	1.00	12.95
ATOM	13747	O	ILE	2040	-0.336	-43.838	22.214	1.00	13.26
ATOM	13748	N	ARG	2041	-2.280	-43.881	23.312	1.00	11.80
ATOM	13749	CA	ARG	2041	-1.657	-44.390	24.520	1.00	13.04
ATOM	13750	CB	ARG	2041	-2.667	-44.389	25.660	1.00	13.92
ATOM	13751	CG	ARG	2041	-2.981	-42.985	26.125	1.00	14.21
ATOM	13752	CD	ARG	2041	-4.050	-42.968	27.178	1.00	16.52
ATOM	13753	NE	ARG	2041	-4.194	-41.629	27.733	1.00	14.95
ATOM	13754	CZ	ARG	2041	-4.651	-40.579	27.057	1.00	18.50
ATOM	13755	NH1	ARG	2041	-5.024	-40.700	25.791	1.00	14.68
ATOM	13756	NH2	ARG	2041	-4.728	-39.397	27.646	1.00	17.59
ATOM	13757	C	ARG	2041	-1.113	-45.793	24.264	1.00	12.55
ATOM	13758	O	ARG	2041	-0.026	-46.143	24.729	1.00	11.32
ATOM	13759	N	ALA	2042	-1.862	-46.598	23.515	1.00	12.58
ATOM	13760	CA	ALA	2042	-1.405	-47.946	23.186	1.00	13.09
ATOM	13761	CB	ALA	2042	-2.481	-48.698	22.387	1.00	13.73
ATOM	13762	C	ALA	2042	-0.115	-47.838	22.368	1.00	12.86
ATOM	13763	O	ALA	2042	0.823	-48.625	22.554	1.00	13.69
ATOM	13764	N	ALA	2043	-0.068	-46.862	21.462	1.00	11.53
ATOM	13765	CA	ALA	2043	1.121	-46.648	20.629	1.00	11.50
ATOM	13766	CB	ALA	2043	0.863	-45.552	19.605	1.00	10.75
ATOM	13767	C	ALA	2043	2.322	-46.277	21.491	1.00	10.66
ATOM	13768	O	ALA	2043	3.439	-46.727	21.235	1.00	12.15
ATOM	13769	N	VAL	2044	2.093	-45.449	22.505	1.00	9.56
ATOM	13770	CA	VAL	2044	3.166	-45.060	23.410	1.00	9.69
ATOM	13771	CB	VAL	2044	2.684	-43.988	24.419	1.00	11.94
ATOM	13772	CG1	VAL	2044	3.702	-43.828	25.536	1.00	11.70
ATOM	13773	CG2	VAL	2044	2.506	-42.656	23.694	1.00	9.79
ATOM	13774	C	VAL	2044	3.695	-46.278	24.163	1.00	11.89
ATOM	13775	O	VAL	2044	4.910	-46.478	24.268	1.00	11.33
ATOM	13776	N	ARG	2045	2.782	-47.101	24.672	1.00	10.73
ATOM	13777	CA	ARG	2045	3.178	-48.301	25.409	1.00	12.45
ATOM	13778	CB	ARG	2045	1.939	-49.016	25.956	1.00	11.81
ATOM	13779	CG	ARG	2045	1.325	-48.297	27.150	1.00	15.71
ATOM	13780	CD	ARG	2045	0.359	-49.185	27.908	1.00	17.80
ATOM	13781	NE	ARG	2045	-0.791	-49.608	27.115	1.00	18.46
ATOM	13782	CZ	ARG	2045	-1.866	-48.862	26.874	1.00	19.90
ATOM	13783	NH1	ARG	2045	-1.955	-47.632	27.360	1.00	18.74
ATOM	13784	NH2	ARG	2045	-2.874	-49.358	26.165	1.00	17.78
ATOM	13785	C	ARG	2045	3.986	-49.265	24.547	1.00	11.67
ATOM	13786	O	ARG	2045	4.925	-49.897	25.031	1.00	13.65
ATOM	13787	N	GLN	2046	3.604	-49.373	23.278	1.00	11.60
ATOM	13788	CA	GLN	2046	4.279	-50.255	22.343	1.00	13.89
ATOM	13789	CB	GLN	2046	3.503	-50.340	21.027	1.00	15.05
ATOM	13790	CG	GLN	2046	4.052	-51.389	20.066	1.00	17.14
ATOM	13791	CD	GLN	2046	3.320	-51.419	18.737	1.00	21.49
ATOM	13792	OE1	GLN	2046	2.098	-51.286	18.687	1.00	24.59
ATOM	13793	NE2	GLN	2046	4.063	-51.607	17.656	1.00	23.02
ATOM	13794	C	GLN	2046	5.682	-49.742	22.071	1.00	14.22
ATOM	13795	O	GLN	2046	6.624	-50.523	21.932	1.00	13.87
ATOM	13796	N	TYR	2047	5.821	-48.424	21.982	1.00	12.66
ATOM	13797	CA	TYR	2047	7.136	-47.834	21.740	1.00	13.34
ATOM	13798	CB	TYR	2047	6.993	-46.321	21.552	1.00	12.45
ATOM	13799	CG	TYR	2047	8.285	-45.548	21.643	1.00	13.33
ATOM	13800	CD1	TYR	2047	9.397	-45.883	20.855	1.00	12.66
ATOM	13801	CE1	TYR	2047	10.582	-45.148	20.940	1.00	15.89
ATOM	13802	CD2	TYR	2047	8.392	-44.469	22.510	1.00	12.07
ATOM	13803	CE2	TYR	2047	9.557	-43.735	22.601	1.00	14.07
ATOM	13804	CZ	TYR	2047	10.649	-44.068	21.824	1.00	14.94
ATOM	13805	OH	TYR	2047	11.805	-43.318	21.929	1.00	16.90
ATOM	13806	C	TYR	2047	8.030	-48.163	22.939	1.00	12.59
ATOM	13807	O	TYR	2047	9.145	-48.661	22.784	1.00	10.64
ATOM	13808	N	MET	2048	7.522	-47.896	24.139	1.00	12.77
ATOM	13809	CA	MET	2048	8.266	-48.190	25.361	1.00	13.01
ATOM	13810	CB	MET	2048	7.394	-47.907	26.595	1.00	14.40
ATOM	13811	CG	MET	2048	7.101	-46.434	26.842	1.00	14.98

ATOM	13812	SD	MET	2048	5.856	-46.160	28.106	1.00	18.28
ATOM	13813	CE	MET	2048	6.752	-46.711	29.577	1.00	18.21
ATOM	13814	C	MET	2048	8.730	-49.647	25.400	1.00	14.55
ATOM	13815	O	MET	2048	9.907	-49.941	25.652	1.00	11.07
ATOM	13816	N	ALA	2049	7.793	-50.561	25.163	1.00	13.04
ATOM	13817	CA	ALA	2049	8.096	-51.988	25.182	1.00	14.89
ATOM	13818	CB	ALA	2049	6.798	-52.799	24.992	1.00	14.38
ATOM	13819	C	ALA	2049	9.128	-52.385	24.130	1.00	15.06
ATOM	13820	O	ALA	2049	10.043	-53.163	24.414	1.00	14.34
ATOM	13821	N	GLU	2050	9.008	-51.849	22.916	1.00	12.60
ATOM	13822	CA	GLU	2050	9.963	-52.224	21.869	1.00	13.77
ATOM	13823	CB	GLU	2050	9.461	-51.778	20.480	1.00	10.52
ATOM	13824	CG	GLU	2050	8.388	-52.697	19.915	1.00	12.90
ATOM	13825	CD	GLU	2050	7.895	-52.284	18.544	1.00	14.19
ATOM	13826	OE1	GLU	2050	8.707	-51.760	17.752	1.00	14.22
ATOM	13827	OE2	GLU	2050	6.695	-52.502	18.255	1.00	13.57
ATOM	13828	C	GLU	2050	11.361	-51.689	22.145	1.00	14.61
ATOM	13829	O	GLU	2050	12.354	-52.322	21.790	1.00	12.04
ATOM	13830	N	VAL	2051	11.453	-50.528	22.783	1.00	14.04
ATOM	13831	CA	VAL	2051	12.774	-49.999	23.088	1.00	12.24
ATOM	13832	CB	VAL	2051	12.701	-48.552	23.589	1.00	12.65
ATOM	13833	CG1	VAL	2051	14.041	-48.153	24.216	1.00	12.32
ATOM	13834	CG2	VAL	2051	12.361	-47.621	22.427	1.00	10.30
ATOM	13835	C	VAL	2051	13.434	-50.866	24.159	1.00	12.70
ATOM	13836	O	VAL	2051	14.618	-51.203	24.063	1.00	14.76
ATOM	13837	N	GLU	2052	12.666	-51.232	25.177	1.00	12.67
ATOM	13838	CA	GLU	2052	13.198	-52.051	26.267	1.00	13.06
ATOM	13839	CB	GLU	2052	12.177	-52.152	27.405	1.00	17.19
ATOM	13840	CG	GLU	2052	12.650	-52.976	28.597	1.00	22.09
ATOM	13841	CD	GLU	2052	11.791	-52.760	29.836	1.00	27.02
ATOM	13842	OE1	GLU	2052	11.779	-53.647	30.714	1.00	29.74
ATOM	13843	OE2	GLU	2052	11.135	-51.702	29.940	1.00	27.52
ATOM	13844	C	GLU	2052	13.610	-53.446	25.809	1.00	15.04
ATOM	13845	O	GLU	2052	14.600	-54.006	26.299	1.00	12.91
ATOM	13846	N	SER	2053	12.866	-54.005	24.862	1.00	14.34
ATOM	13847	CA	SER	2053	13.176	-55.336	24.349	1.00	16.44
ATOM	13848	CB	SER	2053	11.939	-55.945	23.689	1.00	17.92
ATOM	13849	OG	SER	2053	10.960	-56.242	24.665	1.00	29.42
ATOM	13850	C	SER	2053	14.306	-55.292	23.337	1.00	16.59
ATOM	13851	O	SER	2053	14.868	-56.326	22.994	1.00	16.54
ATOM	13852	N	GLY	2054	14.632	-54.096	22.856	1.00	14.35
ATOM	13853	CA	GLY	2054	15.695	-53.961	21.877	1.00	14.92
ATOM	13854	C	GLY	2054	15.168	-54.137	20.464	1.00	14.49
ATOM	13855	O	GLY	2054	15.930	-54.058	19.503	1.00	14.84
ATOM	13856	N	VAL	2055	13.862	-54.379	20.347	1.00	13.75
ATOM	13857	CA	VAL	2055	13.181	-54.582	19.061	1.00	16.33
ATOM	13858	CB	VAL	2055	11.704	-55.006	19.312	1.00	19.13
ATOM	13859	CG1	VAL	2055	10.824	-54.610	18.157	1.00	24.52
ATOM	13860	CG2	VAL	2055	11.640	-56.508	19.561	1.00	22.18
ATOM	13861	C	VAL	2055	13.203	-53.333	18.181	1.00	15.78
ATOM	13862	O	VAL	2055	13.299	-53.420	16.953	1.00	14.79
ATOM	13863	N	TYR	2056	13.077	-52.177	18.823	1.00	13.64
ATOM	13864	CA	TYR	2056	13.105	-50.895	18.121	1.00	14.23
ATOM	13865	CB	TYR	2056	11.816	-50.108	18.336	1.00	14.11
ATOM	13866	CG	TYR	2056	11.878	-48.760	17.647	1.00	13.46
ATOM	13867	CD1	TYR	2056	11.680	-48.653	16.270	1.00	14.58
ATOM	13868	CE1	TYR	2056	11.857	-47.443	15.605	1.00	13.65
ATOM	13869	CD2	TYR	2056	12.248	-47.614	18.349	1.00	11.87
ATOM	13870	CE2	TYR	2056	12.430	-46.397	17.696	1.00	13.86
ATOM	13871	CZ	TYR	2056	12.234	-46.323	16.326	1.00	14.29
ATOM	13872	OH	TYR	2056	12.432	-45.134	15.671	1.00	14.14
ATOM	13873	C	TYR	2056	14.266	-50.086	18.691	1.00	13.20
ATOM	13874	O	TYR	2056	14.412	-49.991	19.901	1.00	13.24
ATOM	13875	N	PRO	2057	15.092	-49.477	17.825	1.00	15.12
ATOM	13876	CD	PRO	2057	16.137	-48.516	18.218	1.00	16.15
ATOM	13877	CA	PRO	2057	14.952	-49.547	16.371	1.00	15.54
ATOM	13878	CB	PRO	2057	15.799	-48.374	15.880	1.00	18.49
ATOM	13879	CG	PRO	2057	16.865	-48.270	16.917	1.00	17.17
ATOM	13880	C	PRO	2057	15.378	-50.876	15.763	1.00	17.76
ATOM	13881	O	PRO	2057	16.236	-51.580	16.301	1.00	16.91
ATOM	13882	N	GLY	2058	14.745	-51.223	14.646	1.00	16.96
ATOM	13883	CA	GLY	2058	15.069	-52.457	13.951	1.00	18.25
ATOM	13884	C	GLY	2058	16.151	-52.181	12.932	1.00	19.23
ATOM	13885	O	GLY	2058	16.593	-51.039	12.776	1.00	17.91
ATOM	13886	N	GLU	2059	16.590	-53.220	12.234	1.00	18.48
ATOM	13887	CA	GLU	2059	17.627	-53.048	11.225	1.00	19.82
ATOM	13888	CB	GLU	2059	17.963	-54.396	10.572	1.00	22.37

ATOM	13889	CG	GLU	2059	19.024	-54.287	9.491	1.00	25.19
ATOM	13890	CD	GLU	2059	20.374	-53.864	10.050	1.00	26.27
ATOM	13891	OE1	GLU	2059	21.173	-53.288	9.285	1.00	28.76
ATOM	13892	OE2	GLU	2059	20.637	-54.117	11.246	1.00	24.77
ATOM	13893	C	GLU	2059	17.193	-52.054	10.151	1.00	17.71
ATOM	13894	O	GLU	2059	18.007	-51.273	9.657	1.00	16.86
ATOM	13895	N	GLU	2060	15.909	-52.078	9.797	1.00	18.39
ATOM	13896	CA	GLU	2060	15.388	-51.179	8.764	1.00	19.58
ATOM	13897	CB	GLU	2060	13.936	-51.506	8.433	1.00	23.58
ATOM	13898	CG	GLU	2060	13.569	-52.954	8.501	1.00	29.46
ATOM	13899	CD	GLU	2060	12.479	-53.188	9.527	1.00	30.54
ATOM	13900	OE1	GLU	2060	11.392	-52.590	9.370	1.00	31.23
ATOM	13901	OE2	GLU	2060	12.724	-53.954	10.484	1.00	34.44
ATOM	13902	C	GLU	2060	15.443	-49.723	9.197	1.00	18.24
ATOM	13903	O	GLU	2060	15.340	-48.828	8.363	1.00	18.32
ATOM	13904	N	HIS	2061	15.592	-49.495	10.499	1.00	17.85
ATOM	13905	CA	HIS	2061	15.646	-48.138	11.050	1.00	15.77
ATOM	13906	CB	HIS	2061	14.890	-48.075	12.374	1.00	15.70
ATOM	13907	CG	HIS	2061	13.485	-48.573	12.296	1.00	13.96
ATOM	13908	CD2	HIS	2061	12.870	-49.609	12.912	1.00	11.61
ATOM	13909	ND1	HIS	2061	12.526	-47.964	11.518	1.00	14.67
ATOM	13910	CE1	HIS	2061	11.378	-48.601	11.660	1.00	12.03
ATOM	13911	NE2	HIS	2061	11.559	-49.603	12.500	1.00	17.48
ATOM	13912	C	HIS	2061	17.074	-47.702	11.324	1.00	16.96
ATOM	13913	O	HIS	2061	17.292	-46.639	11.899	1.00	16.77
ATOM	13914	N	SER	2062	18.040	-48.516	10.913	1.00	17.85
ATOM	13915	CA	SER	2062	19.449	-48.230	11.175	1.00	18.95
ATOM	13916	CB	SER	2062	20.056	-49.420	11.926	1.00	18.81
ATOM	13917	OG	SER	2062	19.261	-49.760	13.059	1.00	21.12
ATOM	13918	C	SER	2062	20.298	-47.917	9.941	1.00	21.62
ATOM	13919	O	SER	2062	19.945	-48.283	8.813	1.00	21.18
ATOM	13920	N	PHE	2063	21.423	-47.240	10.170	1.00	22.99
ATOM	13921	CA	PHE	2063	22.359	-46.870	9.099	1.00	26.28
ATOM	13922	CB	PHE	2063	22.600	-45.348	9.075	1.00	26.42
ATOM	13923	CG	PHE	2063	21.360	-44.526	8.820	1.00	29.55
ATOM	13924	CD1	PHE	2063	20.806	-43.746	9.835	1.00	31.06
ATOM	13925	CD2	PHE	2063	20.754	-44.519	7.568	1.00	29.76
ATOM	13926	CE1	PHE	2063	19.663	-42.974	9.607	1.00	30.50
ATOM	13927	CE2	PHE	2063	19.610	-43.750	7.328	1.00	31.05
ATOM	13928	CZ	PHE	2063	19.065	-42.976	8.350	1.00	29.87
ATOM	13929	C	PHE	2063	23.701	-47.577	9.301	1.00	26.42
ATOM	13930	O	PHE	2063	24.107	-47.849	10.432	1.00	22.96
ATOM	13931	N	HIS	2064	24.386	-47.867	8.199	1.00	28.64
ATOM	13932	CA	HIS	2064	25.687	-48.543	8.246	1.00	31.07
ATOM	13933	CB	HIS	2064	25.543	-49.996	7.789	1.00	31.23
ATOM	13934	CG	HIS	2064	24.784	-50.855	8.749	1.00	31.06
ATOM	13935	CD2	HIS	2064	23.523	-51.345	8.704	1.00	30.91
ATOM	13936	ND1	HIS	2064	25.320	-51.287	9.943	1.00	32.43
ATOM	13937	CE1	HIS	2064	24.423	-52.007	10.593	1.00	32.22
ATOM	13938	NE2	HIS	2064	23.323	-52.058	9.863	1.00	32.35
ATOM	13939	C	HIS	2064	26.729	-47.836	7.381	1.00	31.64
ATOM	13940	O	HIS	2064	27.892	-47.757	7.818	1.00	32.53
ATOM	13941	OXT	HIS	2064	26.375	-47.385	6.272	1.00	34.83
ATOM	13942	C1	KPL	2065	15.474	-35.267	17.263	1.00	36.48
ATOM	13943	C2	KPL	2065	16.103	-34.899	18.622	1.00	35.77
ATOM	13944	C3	KPL	2065	15.239	-35.486	19.739	1.00	36.51
ATOM	13945	C4	KPL	2065	17.519	-35.515	18.719	1.00	37.71
ATOM	13946	O1	KPL	2065	18.376	-35.011	17.682	1.00	42.74
ATOM	13947	C5	KPL	2065	16.164	-33.356	18.773	1.00	32.73
ATOM	13948	O2	KPL	2065	17.230	-32.800	18.938	1.00	31.75
ATOM	13949	C6	KPL	2065	14.923	-32.498	18.721	1.00	31.70
ATOM	13950	O3	KPL	2065	13.821	-33.000	18.568	1.00	31.03
ATOM	13951	O4	KPL	2065	15.041	-31.157	18.845	1.00	20.56
ATOM	13952	CB	MET	2101	22.414	-8.383	70.247	1.00	66.53
ATOM	13953	CG	MET	2101	22.617	-8.021	71.717	1.00	69.29
ATOM	13954	SD	MET	2101	22.027	-6.373	72.186	1.00	72.42
ATOM	13955	CE	MET	2101	23.584	-5.466	72.275	1.00	72.02
ATOM	13956	C	MET	2101	22.338	-6.232	68.953	1.00	62.58
ATOM	13957	O	MET	2101	21.157	-6.314	68.610	1.00	62.34
ATOM	13958	N	MET	2101	24.527	-7.178	69.751	1.00	64.37
ATOM	13959	CA	MET	2101	23.158	-7.490	69.244	1.00	64.28
ATOM	13960	N	LYS	2102	22.975	-5.073	69.085	1.00	60.08
ATOM	13961	CA	LYS	2102	22.317	-3.798	68.834	1.00	57.36
ATOM	13962	CB	LYS	2102	22.010	-3.086	70.157	1.00	58.35
ATOM	13963	CG	LYS	2102	20.762	-3.591	70.868	1.00	60.33
ATOM	13964	CD	LYS	2102	19.496	-3.202	70.117	1.00	61.31
ATOM	13965	CE	LYS	2102	19.296	-1.693	70.111	1.00	62.35

ATOM	13966	NZ	LYS	2102	18.073	-1.296	69.354	1.00	63.75
ATOM	13967	C	LYS	2102	23.179	-2.896	67.957	1.00	54.18
ATOM	13968	O	LYS	2102	23.678	-1.865	68.413	1.00	54.59
ATOM	13969	N	PRO	2103	23.371	-3.276	66.685	1.00	50.17
ATOM	13970	CD	PRO	2103	23.878	-2.346	65.660	1.00	49.96
ATOM	13971	CA	PRO	2103	22.830	-4.484	66.053	1.00	46.64
ATOM	13972	CB	PRO	2103	22.605	-4.032	64.620	1.00	47.38
ATOM	13973	CG	PRO	2103	23.802	-3.176	64.386	1.00	48.98
ATOM	13974	C	PRO	2103	23.794	-5.673	66.131	1.00	42.70
ATOM	13975	O	PRO	2103	24.924	-5.536	66.596	1.00	41.32
ATOM	13976	N	THR	2104	23.334	-6.832	65.667	1.00	38.31
ATOM	13977	CA	THR	2104	24.144	-8.045	65.662	1.00	35.00
ATOM	13978	CB	THR	2104	23.259	-9.309	65.701	1.00	35.04
ATOM	13979	OG1	THR	2104	22.442	-9.286	66.875	1.00	34.66
ATOM	13980	CG2	THR	2104	24.116	-10.561	65.714	1.00	34.54
ATOM	13981	C	THR	2104	24.981	-8.080	64.384	1.00	33.55
ATOM	13982	O	THR	2104	24.455	-7.872	63.291	1.00	31.34
ATOM	13983	N	THR	2105	26.279	-8.340	64.521	1.00	31.77
ATOM	13984	CA	THR	2105	27.172	-8.391	63.365	1.00	30.32
ATOM	13985	CB	THR	2105	28.127	-7.175	63.336	1.00	30.72
ATOM	13986	OG1	THR	2105	28.999	-7.223	64.471	1.00	32.36
ATOM	13987	CG2	THR	2105	27.338	-5.874	63.366	1.00	29.57
ATOM	13988	C	THR	2105	28.013	-9.664	63.355	1.00	29.36
ATOM	13989	O	THR	2105	27.945	-10.474	64.281	1.00	29.05
ATOM	13990	N	ILE	2106	28.798	-9.837	62.297	1.00	28.45
ATOM	13991	CA	ILE	2106	29.666	-11.004	62.162	1.00	28.68
ATOM	13992	CB	ILE	2106	30.529	-10.912	60.893	1.00	28.87
ATOM	13993	CG2	ILE	2106	31.287	-12.221	60.690	1.00	28.27
ATOM	13994	CG1	ILE	2106	29.639	-10.618	59.681	1.00	31.64
ATOM	13995	CD1	ILE	2106	30.409	-10.317	58.403	1.00	31.18
ATOM	13996	C	ILE	2106	30.599	-11.079	63.364	1.00	29.36
ATOM	13997	O	ILE	2106	30.944	-12.164	63.833	1.00	29.25
ATOM	13998	N	SER	2107	31.003	-9.912	63.854	1.00	29.55
ATOM	13999	CA	SER	2107	31.897	-9.820	65.002	1.00	30.81
ATOM	14000	CB	SER	2107	32.058	-8.358	65.425	1.00	31.74
ATOM	14001	OG	SER	2107	32.548	-7.568	64.361	1.00	34.72
ATOM	14002	C	SER	2107	31.363	-10.632	66.175	1.00	29.75
ATOM	14003	O	SER	2107	32.131	-11.245	66.904	1.00	29.24
ATOM	14004	N	LEU	2108	30.045	-10.630	66.348	1.00	29.42
ATOM	14005	CA	LEU	2108	29.419	-11.368	67.436	1.00	29.77
ATOM	14006	CB	LEU	2108	27.925	-11.045	67.512	1.00	30.86
ATOM	14007	CG	LEU	2108	27.356	-10.598	68.865	1.00	32.78
ATOM	14008	CD1	LEU	2108	25.830	-10.637	68.802	1.00	33.38
ATOM	14009	CD2	LEU	2108	27.851	-11.506	69.983	1.00	32.44
ATOM	14010	C	LEU	2108	29.601	-12.874	67.267	1.00	29.98
ATOM	14011	O	LEU	2108	29.949	-13.575	68.216	1.00	28.71
ATOM	14012	N	LEU	2109	29.366	-13.369	66.055	1.00	28.45
ATOM	14013	CA	LEU	2109	29.504	-14.795	65.783	1.00	28.96
ATOM	14014	CB	LEU	2109	29.031	-15.112	64.360	1.00	26.96
ATOM	14015	CG	LEU	2109	27.608	-14.653	63.997	1.00	26.16
ATOM	14016	CD1	LEU	2109	27.228	-15.201	62.628	1.00	24.61
ATOM	14017	CD2	LEU	2109	26.621	-15.140	65.046	1.00	23.92
ATOM	14018	C	LEU	2109	30.955	-15.232	65.962	1.00	30.20
ATOM	14019	O	LEU	2109	31.234	-16.329	66.455	1.00	27.70
ATOM	14020	N	GLN	2110	31.879	-14.366	65.563	1.00	32.67
ATOM	14021	CA	GLN	2110	33.299	-14.666	65.691	1.00	35.69
ATOM	14022	CB	GLN	2110	34.131	-13.556	65.041	1.00	37.71
ATOM	14023	CG	GLN	2110	35.596	-13.909	64.805	1.00	40.40
ATOM	14024	CD	GLN	2110	35.777	-15.115	63.894	1.00	41.71
ATOM	14025	OE1	GLN	2110	35.575	-16.259	64.303	1.00	42.12
ATOM	14026	NE2	GLN	2110	36.156	-14.858	62.645	1.00	42.57
ATOM	14027	C	GLN	2110	33.619	-14.778	67.179	1.00	37.51
ATOM	14028	O	GLN	2110	34.441	-15.595	67.588	1.00	39.31
ATOM	14029	N	LYS	2111	32.954	-13.956	67.987	1.00	38.46
ATOM	14030	CA	LYS	2111	33.157	-13.980	69.430	1.00	39.03
ATOM	14031	CB	LYS	2111	32.407	-12.824	70.098	1.00	41.13
ATOM	14032	CG	LYS	2111	32.493	-12.839	71.621	1.00	44.09
ATOM	14033	CD	LYS	2111	31.376	-12.035	72.275	1.00	45.16
ATOM	14034	CE	LYS	2111	31.450	-10.557	71.933	1.00	46.74
ATOM	14035	NZ	LYS	2111	30.408	-9.785	72.674	1.00	47.25
ATOM	14036	C	LYS	2111	32.637	-15.301	69.989	1.00	38.63
ATOM	14037	O	LYS	2111	33.282	-15.931	70.825	1.00	37.38
ATOM	14038	N	TYR	2112	31.463	-15.714	69.521	1.00	38.15
ATOM	14039	CA	TYR	2112	30.845	-16.959	69.970	1.00	37.96
ATOM	14040	CB	TYR	2112	29.506	-17.168	69.256	1.00	39.49
ATOM	14041	CG	TYR	2112	28.385	-16.279	69.755	1.00	41.55
ATOM	14042	CD1	TYR	2112	27.152	-16.250	69.101	1.00	42.17

ATOM	14043	CE1	TYR	2112	26.106	-15.461	69.569	1.00	43.58
ATOM	14044	CD2	TYR	2112	28.544	-15.488	70.897	1.00	42.83
ATOM	14045	CE2	TYR	2112	27.503	-14.695	71.374	1.00	43.95
ATOM	14046	CZ	TYR	2112	26.288	-14.687	70.707	1.00	44.41
ATOM	14047	OH	TYR	2112	25.256	-13.912	71.176	1.00	46.08
ATOM	14048	C	TYR	2112	31.725	-18.190	69.761	1.00	37.30
ATOM	14049	O	TYR	2112	31.765	-19.080	70.610	1.00	35.99
ATOM	14050	N	LYS	2113	32.417	-18.254	68.628	1.00	36.90
ATOM	14051	CA	LYS	2113	33.280	-19.400	68.362	1.00	38.21
ATOM	14052	CB	LYS	2113	33.784	-19.378	66.914	1.00	36.95
ATOM	14053	CG	LYS	2113	34.652	-20.579	66.560	1.00	34.27
ATOM	14054	CD	LYS	2113	34.828	-20.750	65.061	1.00	32.97
ATOM	14055	CE	LYS	2113	35.585	-22.041	64.761	1.00	32.84
ATOM	14056	NZ	LYS	2113	35.432	-22.499	63.348	1.00	30.32
ATOM	14057	C	LYS	2113	34.465	-19.411	69.328	1.00	38.99
ATOM	14058	O	LYS	2113	34.891	-20.471	69.782	1.00	38.16
ATOM	14059	N	GLN	2114	34.988	-18.229	69.639	1.00	40.94
ATOM	14060	CA	GLN	2114	36.116	-18.110	70.557	1.00	42.72
ATOM	14061	CB	GLN	2114	36.574	-16.653	70.652	1.00	44.16
ATOM	14062	CG	GLN	2114	37.245	-16.133	69.390	1.00	48.37
ATOM	14063	CD	GLN	2114	37.620	-14.663	69.486	1.00	51.00
ATOM	14064	OE1	GLN	2114	38.357	-14.254	70.386	1.00	53.01
ATOM	14065	NE2	GLN	2114	37.117	-13.861	68.551	1.00	51.71
ATOM	14066	C	GLN	2114	35.736	-18.617	71.942	1.00	42.63
ATOM	14067	O	GLN	2114	36.537	-19.263	72.616	1.00	42.99
ATOM	14068	N	GLU	2115	34.508	-18.320	72.358	1.00	42.51
ATOM	14069	CA	GLU	2115	34.016	-18.745	73.664	1.00	42.44
ATOM	14070	CB	GLU	2115	33.001	-17.736	74.207	1.00	44.97
ATOM	14071	CG	GLU	2115	33.467	-16.292	74.162	1.00	47.71
ATOM	14072	CD	GLU	2115	32.482	-15.348	74.816	1.00	49.87
ATOM	14073	OE1	GLU	2115	31.281	-15.405	74.472	1.00	50.50
ATOM	14074	OE2	GLU	2115	32.911	-14.545	75.674	1.00	52.16
ATOM	14075	C	GLU	2115	33.356	-20.114	73.558	1.00	40.83
ATOM	14076	O	GLU	2115	32.806	-20.624	74.532	1.00	40.15
ATOM	14077	N	LYS	2116	33.410	-20.701	72.368	1.00	39.34
ATOM	14078	CA	LYS	2116	32.819	-22.010	72.130	1.00	38.09
ATOM	14079	CB	LYS	2116	33.578	-23.079	72.923	1.00	40.37
ATOM	14080	CG	LYS	2116	35.049	-23.210	72.540	1.00	42.96
ATOM	14081	CD	LYS	2116	35.213	-23.602	71.075	1.00	45.90
ATOM	14082	CE	LYS	2116	36.679	-23.631	70.646	1.00	47.03
ATOM	14083	NZ	LYS	2116	37.471	-24.671	71.351	1.00	46.52
ATOM	14084	C	LYS	2116	31.332	-22.042	72.493	1.00	36.61
ATOM	14085	O	LYS	2116	30.836	-23.016	73.062	1.00	35.86
ATOM	14086	N	LYS	2117	30.620	-20.972	72.159	1.00	35.40
ATOM	14087	CA	LYS	2117	29.193	-20.908	72.444	1.00	33.94
ATOM	14088	CB	LYS	2117	28.838	-19.570	73.100	1.00	34.82
ATOM	14089	CG	LYS	2117	27.338	-19.354	73.271	1.00	36.44
ATOM	14090	CD	LYS	2117	27.039	-18.265	74.290	1.00	38.88
ATOM	14091	CE	LYS	2117	27.406	-18.729	75.695	1.00	39.51
ATOM	14092	NZ	LYS	2117	27.253	-17.658	76.714	1.00	41.13
ATOM	14093	C	LYS	2117	28.381	-21.107	71.166	1.00	32.80
ATOM	14094	O	LYS	2117	28.336	-20.232	70.300	1.00	31.72
ATOM	14095	N	ARG	2118	27.752	-22.274	71.060	1.00	30.34
ATOM	14096	CA	ARG	2118	26.938	-22.628	69.902	1.00	30.20
ATOM	14097	CB	ARG	2118	26.539	-24.105	69.984	1.00	30.53
ATOM	14098	CG	ARG	2118	27.675	-25.045	69.596	1.00	32.66
ATOM	14099	CD	ARG	2118	27.360	-26.506	69.872	1.00	33.98
ATOM	14100	NE	ARG	2118	27.573	-26.853	71.274	1.00	34.15
ATOM	14101	CZ	ARG	2118	27.601	-28.097	71.741	1.00	33.23
ATOM	14102	NH1	ARG	2118	27.427	-29.121	70.918	1.00	33.99
ATOM	14103	NH2	ARG	2118	27.816	-28.321	73.031	1.00	31.99
ATOM	14104	C	ARG	2118	25.703	-21.734	69.800	1.00	28.50
ATOM	14105	O	ARG	2118	24.919	-21.635	70.741	1.00	28.26
ATOM	14106	N	PHE	2119	25.546	-21.089	68.647	1.00	27.02
ATOM	14107	CA	PHE	2119	24.440	-20.171	68.403	1.00	25.78
ATOM	14108	CB	PHE	2119	25.002	-18.816	67.965	1.00	26.66
ATOM	14109	CG	PHE	2119	25.831	-18.883	66.710	1.00	28.65
ATOM	14110	CD1	PHE	2119	25.236	-18.742	65.457	1.00	27.88
ATOM	14111	CD2	PHE	2119	27.205	-19.110	66.779	1.00	27.56
ATOM	14112	CE1	PHE	2119	25.997	-18.821	64.294	1.00	29.01
ATOM	14113	CE2	PHE	2119	27.975	-19.192	65.624	1.00	28.48
ATOM	14114	CZ	PHE	2119	27.371	-19.047	64.377	1.00	29.61
ATOM	14115	C	PHE	2119	23.464	-20.693	67.351	1.00	24.24
ATOM	14116	O	PHE	2119	23.861	-21.375	66.404	1.00	20.96
ATOM	14117	N	ALA	2120	22.186	-20.365	67.515	1.00	23.46
ATOM	14118	CA	ALA	2120	21.162	-20.810	66.577	1.00	23.11
ATOM	14119	CB	ALA	2120	19.886	-21.175	67.343	1.00	25.46



ATOM	14120	C	ALA	2120	20.857	-19.756	65.510	1.00	22.49
ATOM	14121	O	ALA	2120	20.928	-18.553	65.765	1.00	20.69
ATOM	14122	N	THR	2121	20.529	-20.225	64.309	1.00	20.02
ATOM	14123	CA	THR	2121	20.198	-19.350	63.186	1.00	21.26
ATOM	14124	CB	THR	2121	21.324	-19.357	62.125	1.00	22.14
ATOM	14125	OG1	THR	2121	22.552	-18.930	62.734	1.00	27.92
ATOM	14126	CG2	THR	2121	20.987	-18.424	60.985	1.00	29.91
ATOM	14127	C	THR	2121	18.923	-19.922	62.577	1.00	17.16
ATOM	14128	O	THR	2121	18.651	-21.104	62.731	1.00	17.14
ATOM	14129	N	ILE	2122	18.139	-19.102	61.885	1.00	18.16
ATOM	14130	CA	ILE	2122	16.898	-19.608	61.308	1.00	16.98
ATOM	14131	CB	ILE	2122	15.737	-19.454	62.321	1.00	19.66
ATOM	14132	CG2	ILE	2122	15.365	-17.977	62.470	1.00	18.99
ATOM	14133	CG1	ILE	2122	14.526	-20.260	61.856	1.00	20.97
ATOM	14134	CD1	ILE	2122	13.404	-20.310	62.873	1.00	23.87
ATOM	14135	C	ILE	2122	16.545	-18.882	60.020	1.00	16.60
ATOM	14136	O	ILE	2122	17.017	-17.772	59.792	1.00	17.43
ATOM	14137	N	THR	2123	15.743	-19.513	59.166	1.00	18.07
ATOM	14138	CA	THR	2123	15.330	-18.866	57.923	1.00	17.40
ATOM	14139	CB	THR	2123	14.902	-19.892	56.836	1.00	19.53
ATOM	14140	OG1	THR	2123	13.739	-20.612	57.278	1.00	20.71
ATOM	14141	CG2	THR	2123	16.039	-20.876	56.547	1.00	19.80
ATOM	14142	C	THR	2123	14.134	-17.973	58.229	1.00	16.12
ATOM	14143	O	THR	2123	13.373	-18.244	59.152	1.00	17.78
ATOM	14144	N	ALA	2124	13.978	-16.903	57.459	1.00	16.44
ATOM	14145	CA	ALA	2124	12.863	-15.976	57.646	1.00	15.59
ATOM	14146	CB	ALA	2124	13.226	-14.918	58.685	1.00	17.03
ATOM	14147	C	ALA	2124	12.600	-15.330	56.291	1.00	14.67
ATOM	14148	O	ALA	2124	13.539	-15.046	55.556	1.00	13.64
ATOM	14149	N	TYR	2125	11.331	-15.107	55.956	1.00	13.33
ATOM	14150	CA	TYR	2125	10.985	-14.521	54.659	1.00	12.55
ATOM	14151	CB	TYR	2125	10.439	-15.599	53.712	1.00	14.08
ATOM	14152	CG	TYR	2125	11.166	-16.926	53.797	1.00	13.16
ATOM	14153	CD1	TYR	2125	10.597	-18.007	54.464	1.00	15.20
ATOM	14154	CE1	TYR	2125	11.268	-19.220	54.578	1.00	19.44
ATOM	14155	CD2	TYR	2125	12.436	-17.090	53.240	1.00	15.12
ATOM	14156	CE2	TYR	2125	13.122	-18.308	53.351	1.00	16.49
ATOM	14157	CZ	TYR	2125	12.527	-19.362	54.023	1.00	17.45
ATOM	14158	OH	TYR	2125	13.190	-20.559	54.160	1.00	18.95
ATOM	14159	C	TYR	2125	9.957	-13.401	54.752	1.00	14.84
ATOM	14160	O	TYR	2125	9.513	-12.876	53.726	1.00	13.18
ATOM	14161	N	ASP	2126	9.569	-13.030	55.967	1.00	15.18
ATOM	14162	CA	ASP	2126	8.586	-11.969	56.114	1.00	15.35
ATOM	14163	CB	ASP	2126	7.164	-12.552	55.980	1.00	16.11
ATOM	14164	CG	ASP	2126	6.804	-13.517	57.105	1.00	17.38
ATOM	14165	OD1	ASP	2126	6.660	-13.064	58.256	1.00	17.19
ATOM	14166	OD2	ASP	2126	6.665	-14.729	56.837	1.00	17.99
ATOM	14167	C	ASP	2126	8.740	-11.166	57.410	1.00	16.68
ATOM	14168	O	ASP	2126	9.480	-11.549	58.325	1.00	15.28
ATOM	14169	N	TYR	2127	8.046	-10.038	57.475	1.00	15.28
ATOM	14170	CA	TYR	2127	8.120	-9.164	58.641	1.00	17.17
ATOM	14171	CB	TYR	2127	7.276	-7.913	58.397	1.00	17.79
ATOM	14172	CG	TYR	2127	6.992	-7.109	59.641	1.00	17.73
ATOM	14173	CD1	TYR	2127	7.875	-6.122	60.075	1.00	20.38
ATOM	14174	CE1	TYR	2127	7.605	-5.367	61.218	1.00	20.48
ATOM	14175	CD2	TYR	2127	5.832	-7.331	60.379	1.00	20.09
ATOM	14176	CE2	TYR	2127	5.551	-6.590	61.519	1.00	22.06
ATOM	14177	CZ	TYR	2127	6.439	-5.610	61.930	1.00	23.04
ATOM	14178	OH	TYR	2127	6.152	-4.857	63.050	1.00	24.49
ATOM	14179	C	TYR	2127	7.671	-9.827	59.937	1.00	18.30
ATOM	14180	O	TYR	2127	8.354	-9.732	60.961	1.00	17.92
ATOM	14181	N	SER	2128	6.518	-10.487	59.886	1.00	19.07
ATOM	14182	CA	SER	2128	5.943	-11.136	61.055	1.00	21.09
ATOM	14183	CB	SER	2128	4.638	-11.836	60.682	1.00	22.18
ATOM	14184	OG	SER	2128	3.632	-10.872	60.424	1.00	21.45
ATOM	14185	C	SER	2128	6.861	-12.120	61.754	1.00	21.26
ATOM	14186	O	SER	2128	7.154	-11.960	62.943	1.00	20.52
ATOM	14187	N	PHE	2129	7.310	-13.143	61.036	1.00	18.91
ATOM	14188	CA	PHE	2129	8.194	-14.111	61.661	1.00	18.72
ATOM	14189	CB	PHE	2129	8.404	-15.338	60.770	1.00	19.49
ATOM	14190	CG	PHE	2129	7.255	-16.303	60.797	1.00	20.01
ATOM	14191	CD1	PHE	2129	6.312	-16.317	59.772	1.00	18.47
ATOM	14192	CD2	PHE	2129	7.101	-17.186	61.862	1.00	19.74
ATOM	14193	CE1	PHE	2129	5.238	-17.198	59.811	1.00	19.85
ATOM	14194	CE2	PHE	2129	6.030	-18.067	61.907	1.00	20.86
ATOM	14195	CZ	PHE	2129	5.094	-18.076	60.879	1.00	20.11
ATOM	14196	C	PHE	2129	9.527	-13.489	62.039	1.00	17.47

ATOM	14197	O	PHE	2129	10.064	-13.799	63.097	1.00	19.26
ATOM	14198	N	ALA	2130	10.055	-12.599	61.200	1.00	18.95
ATOM	14199	CA	ALA	2130	11.333	-11.958	61.507	1.00	17.77
ATOM	14200	CB	ALA	2130	11.724	-11.007	60.396	1.00	17.99
ATOM	14201	C	ALA	2130	11.247	-11.203	62.830	1.00	20.34
ATOM	14202	O	ALA	2130	12.143	-11.284	63.673	1.00	17.97
ATOM	14203	N	LYS	2131	10.156	-10.465	63.001	1.00	19.46
ATOM	14204	CA	LYS	2131	9.932	-9.692	64.215	1.00	22.35
ATOM	14205	CB	LYS	2131	8.625	-8.900	64.090	1.00	23.83
ATOM	14206	CG	LYS	2131	8.301	-7.979	65.265	1.00	26.46
ATOM	14207	CD	LYS	2131	9.254	-6.793	65.315	1.00	29.95
ATOM	14208	CE	LYS	2131	8.767	-5.717	66.277	1.00	30.64
ATOM	14209	NZ	LYS	2131	8.650	-6.214	67.675	1.00	32.08
ATOM	14210	C	LYS	2131	9.861	-10.627	65.420	1.00	21.60
ATOM	14211	O	LYS	2131	10.447	-10.352	66.469	1.00	24.21
ATOM	14212	N	LEU	2132	9.149	-11.737	65.259	1.00	20.48
ATOM	14213	CA	LEU	2132	8.981	-12.712	66.331	1.00	21.79
ATOM	14214	CB	LEU	2132	8.000	-13.805	65.892	1.00	20.32
ATOM	14215	CG	LEU	2132	7.523	-14.833	66.930	1.00	21.91
ATOM	14216	CD1	LEU	2132	6.279	-15.525	66.407	1.00	21.23
ATOM	14217	CD2	LEU	2132	8.608	-15.864	67.222	1.00	19.41
ATOM	14218	C	LEU	2132	10.303	-13.335	66.764	1.00	21.65
ATOM	14219	O	LEU	2132	10.524	-13.577	67.954	1.00	20.18
ATOM	14220	N	PHE	2133	11.177	-13.615	65.803	1.00	20.32
ATOM	14221	CA	PHE	2133	12.474	-14.204	66.127	1.00	20.05
ATOM	14222	CB	PHE	2133	13.196	-14.655	64.851	1.00	18.15
ATOM	14223	CG	PHE	2133	12.452	-15.698	64.066	1.00	15.76
ATOM	14224	CD1	PHE	2133	11.618	-16.610	64.707	1.00	15.98
ATOM	14225	CD2	PHE	2133	12.598	-15.775	62.680	1.00	16.44
ATOM	14226	CE1	PHE	2133	10.934	-17.585	63.982	1.00	17.09
ATOM	14227	CE2	PHE	2133	11.922	-16.746	61.947	1.00	13.66
ATOM	14228	CZ	PHE	2133	11.087	-17.653	62.595	1.00	15.97
ATOM	14229	C	PHE	2133	13.344	-13.213	66.875	1.00	20.41
ATOM	14230	O	PHE	2133	13.940	-13.549	67.899	1.00	22.66
ATOM	14231	N	ALA	2134	13.420	-11.991	66.356	1.00	20.90
ATOM	14232	CA	ALA	2134	14.230	-10.952	66.977	1.00	22.59
ATOM	14233	CB	ALA	2134	14.139	-9.675	66.161	1.00	22.94
ATOM	14234	C	ALA	2134	13.799	-10.690	68.417	1.00	25.23
ATOM	14235	O	ALA	2134	14.636	-10.474	69.294	1.00	25.72
ATOM	14236	N	ASP	2135	12.494	-10.719	68.666	1.00	24.88
ATOM	14237	CA	ASP	2135	12.001	-10.471	70.017	1.00	27.30
ATOM	14238	CB	ASP	2135	10.489	-10.246	70.009	1.00	28.36
ATOM	14239	CG	ASP	2135	10.086	-8.973	69.291	1.00	28.77
ATOM	14240	OD1	ASP	2135	10.963	-8.137	68.993	1.00	29.20
ATOM	14241	OD2	ASP	2135	8.876	-8.808	69.034	1.00	28.65
ATOM	14242	C	ASP	2135	12.334	-11.593	71.000	1.00	27.17
ATOM	14243	O	ASP	2135	12.518	-11.342	72.189	1.00	26.00
ATOM	14244	N	GLU	2136	12.406	-12.828	70.510	1.00	27.96
ATOM	14245	CA	GLU	2136	12.708	-13.964	71.377	1.00	28.87
ATOM	14246	CB	GLU	2136	12.111	-15.247	70.809	1.00	27.56
ATOM	14247	CG	GLU	2136	10.611	-15.241	70.812	1.00	30.49
ATOM	14248	CD	GLU	2136	10.063	-14.819	72.157	1.00	31.36
ATOM	14249	OE1	GLU	2136	10.393	-15.491	73.158	1.00	32.34
ATOM	14250	OE2	GLU	2136	9.319	-13.816	72.207	1.00	28.17
ATOM	14251	C	GLU	2136	14.187	-14.178	71.629	1.00	29.36
ATOM	14252	O	GLU	2136	14.567	-14.891	72.559	1.00	30.73
ATOM	14253	N	GLY	2137	15.029	-13.581	70.794	1.00	30.45
ATOM	14254	CA	GLY	2137	16.461	-13.738	70.988	1.00	30.66
ATOM	14255	C	GLY	2137	17.255	-14.119	69.754	1.00	29.34
ATOM	14256	O	GLY	2137	18.475	-13.979	69.749	1.00	28.38
ATOM	14257	N	LEU	2138	16.572	-14.607	68.720	1.00	28.35
ATOM	14258	CA	LEU	2138	17.229	-15.003	67.471	1.00	26.93
ATOM	14259	CB	LEU	2138	16.304	-15.885	66.634	1.00	28.35
ATOM	14260	CG	LEU	2138	16.435	-17.385	66.848	1.00	27.76
ATOM	14261	CD1	LEU	2138	15.372	-18.123	66.059	1.00	24.29
ATOM	14262	CD2	LEU	2138	17.826	-17.827	66.426	1.00	29.18
ATOM	14263	C	LEU	2138	17.590	-13.765	66.674	1.00	27.25
ATOM	14264	O	LEU	2138	16.708	-13.065	66.183	1.00	27.95
ATOM	14265	N	ASN	2139	18.886	-13.508	66.536	1.00	24.39
ATOM	14266	CA	ASN	2139	19.344	-12.333	65.818	1.00	23.70
ATOM	14267	CB	ASN	2139	20.224	-11.464	66.722	1.00	27.76
ATOM	14268	CG	ASN	2139	19.509	-11.026	67.982	1.00	31.16
ATOM	14269	OD1	ASN	2139	18.415	-10.458	67.924	1.00	34.02
ATOM	14270	ND2	ASN	2139	20.125	-11.279	69.130	1.00	33.28
ATOM	14271	C	ASN	2139	20.112	-12.664	64.552	1.00	20.12
ATOM	14272	O	ASN	2139	20.800	-11.804	64.016	1.00	21.01
ATOM	14273	N	VAL	2140	20.020	-13.905	64.089	1.00	17.90

ATOM	14274	CA	VAL	2140	20.703	-14.304	62.860	1.00	17.14
ATOM	14275	CB	VAL	2140	21.860	-15.287	63.124	1.00	19.66
ATOM	14276	CG1	VAL	2140	22.638	-15.512	61.834	1.00	17.34
ATOM	14277	CG2	VAL	2140	22.770	-14.735	64.215	1.00	21.32
ATOM	14278	C	VAL	2140	19.682	-14.991	61.969	1.00	14.62
ATOM	14279	O	VAL	2140	19.224	-16.085	62.273	1.00	14.94
ATOM	14280	N	MET	2141	19.324	-14.338	60.872	1.00	15.56
ATOM	14281	CA	MET	2141	18.332	-14.888	59.971	1.00	15.34
ATOM	14282	CB	MET	2141	17.066	-14.034	60.024	1.00	17.74
ATOM	14283	CG	MET	2141	16.383	-14.068	61.383	1.00	20.01
ATOM	14284	SD	MET	2141	15.060	-12.883	61.483	1.00	22.65
ATOM	14285	CE	MET	2141	15.531	-11.942	62.941	1.00	20.39
ATOM	14286	C	MET	2141	18.827	-14.989	58.548	1.00	14.81
ATOM	14287	O	MET	2141	19.577	-14.136	58.069	1.00	14.45
ATOM	14288	N	LEU	2142	18.393	-16.040	57.869	1.00	15.04
ATOM	14289	CA	LEU	2142	18.781	-16.250	56.483	1.00	15.97
ATOM	14290	CB	LEU	2142	19.477	-17.609	56.352	1.00	17.78
ATOM	14291	CG	LEU	2142	19.965	-18.146	54.997	1.00	23.22
ATOM	14292	CD1	LEU	2142	18.838	-18.861	54.306	1.00	25.80
ATOM	14293	CD2	LEU	2142	20.536	-17.032	54.136	1.00	22.00
ATOM	14294	C	LEU	2142	17.555	-16.182	55.572	1.00	14.69
ATOM	14295	O	LEU	2142	16.570	-16.886	55.781	1.00	14.54
ATOM	14296	N	VAL	2143	17.626	-15.299	54.582	1.00	13.79
ATOM	14297	CA	VAL	2143	16.567	-15.156	53.596	1.00	14.55
ATOM	14298	CB	VAL	2143	16.390	-13.691	53.162	1.00	15.17
ATOM	14299	CG1	VAL	2143	15.300	-13.584	52.093	1.00	17.16
ATOM	14300	CG2	VAL	2143	16.006	-12.837	54.379	1.00	16.68
ATOM	14301	C	VAL	2143	17.126	-15.985	52.450	1.00	14.62
ATOM	14302	O	VAL	2143	17.824	-15.466	51.583	1.00	15.21
ATOM	14303	N	GLY	2144	16.843	-17.283	52.474	1.00	16.51
ATOM	14304	CA	GLY	2144	17.379	-18.166	51.454	1.00	16.80
ATOM	14305	C	GLY	2144	16.441	-18.554	50.339	1.00	16.58
ATOM	14306	O	GLY	2144	15.221	-18.396	50.455	1.00	15.97
ATOM	14307	N	ASP	2145	17.009	-19.077	49.254	1.00	15.26
ATOM	14308	CA	ASP	2145	16.193	-19.474	48.107	1.00	16.47
ATOM	14309	CB	ASP	2145	17.066	-19.746	46.875	1.00	16.11
ATOM	14310	CG	ASP	2145	18.084	-20.849	47.095	1.00	17.05
ATOM	14311	OD1	ASP	2145	18.119	-21.434	48.182	1.00	15.53
ATOM	14312	OD2	ASP	2145	18.853	-21.122	46.159	1.00	20.23
ATOM	14313	C	ASP	2145	15.289	-20.667	48.406	1.00	14.31
ATOM	14314	O	ASP	2145	14.536	-21.124	47.542	1.00	13.80
ATOM	14315	N	SER	2146	15.350	-21.158	49.642	1.00	15.43
ATOM	14316	CA	SER	2146	14.475	-22.251	50.051	1.00	13.71
ATOM	14317	CB	SER	2146	14.764	-22.668	51.498	1.00	14.86
ATOM	14318	OG	SER	2146	14.708	-21.562	52.384	1.00	15.94
ATOM	14319	C	SER	2146	13.050	-21.724	49.938	1.00	13.48
ATOM	14320	O	SER	2146	12.086	-22.493	49.838	1.00	13.05
ATOM	14321	N	LEU	2147	12.911	-20.403	49.960	1.00	13.53
ATOM	14322	CA	LEU	2147	11.580	-19.798	49.848	1.00	15.06
ATOM	14323	CB	LEU	2147	11.676	-18.270	49.964	1.00	14.88
ATOM	14324	CG	LEU	2147	12.398	-17.474	48.868	1.00	15.50
ATOM	14325	CD1	LEU	2147	11.425	-17.211	47.718	1.00	12.97
ATOM	14326	CD2	LEU	2147	12.914	-16.144	49.442	1.00	14.61
ATOM	14327	C	LEU	2147	10.902	-20.193	48.532	1.00	15.02
ATOM	14328	O	LEU	2147	9.674	-20.120	48.406	1.00	13.70
ATOM	14329	N	GLY	2148	11.699	-20.618	47.556	1.00	13.80
ATOM	14330	CA	GLY	2148	11.129	-21.027	46.282	1.00	14.73
ATOM	14331	C	GLY	2148	10.168	-22.193	46.449	1.00	15.52
ATOM	14332	O	GLY	2148	9.240	-22.374	45.664	1.00	15.06
ATOM	14333	N	MET	2149	10.384	-22.984	47.490	1.00	16.51
ATOM	14334	CA	MET	2149	9.543	-24.142	47.739	1.00	18.26
ATOM	14335	CB	MET	2149	10.420	-25.344	48.105	1.00	19.59
ATOM	14336	CG	MET	2149	11.372	-25.737	46.979	1.00	23.21
ATOM	14337	SD	MET	2149	12.577	-27.009	47.403	1.00	26.89
ATOM	14338	CE	MET	2149	11.515	-28.406	47.735	1.00	27.42
ATOM	14339	C	MET	2149	8.525	-23.867	48.836	1.00	17.57
ATOM	14340	O	MET	2149	7.330	-24.072	48.643	1.00	18.80
ATOM	14341	N	THR	2150	9.000	-23.374	49.974	1.00	17.41
ATOM	14342	CA	THR	2150	8.125	-23.094	51.106	1.00	19.06
ATOM	14343	CB	THR	2150	8.947	-22.896	52.395	1.00	20.48
ATOM	14344	OG1	THR	2150	8.052	-22.760	53.500	1.00	28.01
ATOM	14345	CG2	THR	2150	9.819	-21.652	52.296	1.00	16.62
ATOM	14346	C	THR	2150	7.189	-21.893	50.948	1.00	19.09
ATOM	14347	O	THR	2150	6.085	-21.890	51.495	1.00	19.04
ATOM	14348	N	VAL	2151	7.631	-20.878	50.212	1.00	15.32
ATOM	14349	CA	VAL	2151	6.816	-19.688	50.000	1.00	15.78
ATOM	14350	CB	VAL	2151	7.660	-18.400	50.167	1.00	14.07

ATOM	14351	CG1	VAL	2151	6.850	-17.167	49.740	1.00	14.82
ATOM	14352	CG2	VAL	2151	8.092	-18.258	51.629	1.00	16.78
ATOM	14353	C	VAL	2151	6.122	-19.683	48.634	1.00	15.00
ATOM	14354	O	VAL	2151	4.892	-19.573	48.554	1.00	12.68
ATOM	14355	N	GLN	2152	6.898	-19.827	47.562	1.00	12.81
ATOM	14356	CA	GLN	2152	6.332	-19.819	46.205	1.00	12.29
ATOM	14357	CB	GLN	2152	7.413	-19.435	45.195	1.00	9.78
ATOM	14358	CG	GLN	2152	8.125	-18.150	45.545	1.00	11.69
ATOM	14359	CD	GLN	2152	9.274	-17.866	44.616	1.00	12.80
ATOM	14360	OE1	GLN	2152	9.733	-18.750	43.901	1.00	13.02
ATOM	14361	NE2	GLN	2152	9.765	-16.630	44.639	1.00	10.46
ATOM	14362	C	GLN	2152	5.673	-21.127	45.773	1.00	13.36
ATOM	14363	O	GLN	2152	4.812	-21.127	44.897	1.00	13.82
ATOM	14364	N	GLY	2153	6.089	-22.244	46.368	1.00	14.36
ATOM	14365	CA	GLY	2153	5.485	-23.517	46.020	1.00	13.48
ATOM	14366	C	GLY	2153	6.071	-24.295	44.852	1.00	14.85
ATOM	14367	O	GLY	2153	5.409	-25.187	44.308	1.00	13.64
ATOM	14368	N	HIS	2154	7.301	-23.974	44.464	1.00	14.25
ATOM	14369	CA	HIS	2154	7.965	-24.675	43.362	1.00	16.22
ATOM	14370	CB	HIS	2154	9.061	-23.799	42.755	1.00	14.89
ATOM	14371	CG	HIS	2154	8.556	-22.555	42.100	1.00	16.52
ATOM	14372	CD2	HIS	2154	8.719	-21.251	42.426	1.00	15.21
ATOM	14373	ND1	HIS	2154	7.799	-22.572	40.949	1.00	16.03
ATOM	14374	CE1	HIS	2154	7.519	-21.332	40.595	1.00	18.56
ATOM	14375	NE2	HIS	2154	8.066	-20.512	41.474	1.00	18.50
ATOM	14376	C	HIS	2154	8.586	-25.991	43.836	1.00	17.17
ATOM	14377	O	HIS	2154	8.770	-26.202	45.032	1.00	17.56
ATOM	14378	N	ASP	2155	8.913	-26.868	42.889	1.00	18.27
ATOM	14379	CA	ASP	2155	9.507	-28.163	43.211	1.00	21.07
ATOM	14380	CB	ASP	2155	9.344	-29.141	42.041	1.00	26.36
ATOM	14381	CG	ASP	2155	10.020	-28.659	40.771	1.00	30.40
ATOM	14382	OD1	ASP	2155	11.238	-28.378	40.795	1.00	35.46
ATOM	14383	OD2	ASP	2155	9.331	-28.562	39.727	1.00	38.63
ATOM	14384	C	ASP	2155	10.986	-28.060	43.568	1.00	18.34
ATOM	14385	O	ASP	2155	11.600	-29.037	43.990	1.00	19.68
ATOM	14386	N	SER	2156	11.559	-26.878	43.387	1.00	17.56
ATOM	14387	CA	SER	2156	12.968	-26.667	43.692	1.00	14.88
ATOM	14388	CB	SER	2156	13.847	-27.160	42.535	1.00	15.97
ATOM	14389	OG	SER	2156	13.813	-26.262	41.438	1.00	12.59
ATOM	14390	C	SER	2156	13.215	-25.187	43.923	1.00	15.41
ATOM	14391	O	SER	2156	12.300	-24.372	43.791	1.00	14.28
ATOM	14392	N	THR	2157	14.449	-24.833	44.263	1.00	13.49
ATOM	14393	CA	THR	2157	14.776	-23.433	44.514	1.00	14.04
ATOM	14394	CB	THR	2157	15.901	-23.292	45.558	1.00	14.05
ATOM	14395	OG1	THR	2157	17.117	-23.825	45.018	1.00	16.03
ATOM	14396	CG2	THR	2157	15.550	-24.034	46.839	1.00	16.22
ATOM	14397	C	THR	2157	15.219	-22.668	43.270	1.00	13.58
ATOM	14398	O	THR	2157	15.329	-21.440	43.313	1.00	12.41
ATOM	14399	N	LEU	2158	15.450	-23.374	42.162	1.00	13.34
ATOM	14400	CA	LEU	2158	15.926	-22.722	40.937	1.00	12.31
ATOM	14401	CB	LEU	2158	16.087	-23.761	39.808	1.00	14.42
ATOM	14402	CG	LEU	2158	17.337	-24.646	39.959	1.00	16.63
ATOM	14403	CD1	LEU	2158	17.106	-25.616	41.104	1.00	17.91
ATOM	14404	CD2	LEU	2158	17.631	-25.409	38.669	1.00	18.40
ATOM	14405	C	LEU	2158	15.166	-21.500	40.413	1.00	12.03
ATOM	14406	O	LEU	2158	15.779	-20.523	40.004	1.00	11.95
ATOM	14407	N	PRO	2159	13.825	-21.526	40.437	1.00	11.73
ATOM	14408	CD	PRO	2159	12.922	-22.627	40.802	1.00	13.77
ATOM	14409	CA	PRO	2159	13.060	-20.378	39.941	1.00	11.00
ATOM	14410	CB	PRO	2159	11.629	-20.913	39.914	1.00	13.29
ATOM	14411	CG	PRO	2159	11.619	-21.891	41.005	1.00	17.80
ATOM	14412	C	PRO	2159	13.181	-19.078	40.737	1.00	8.57
ATOM	14413	O	PRO	2159	12.796	-18.016	40.253	1.00	10.80
ATOM	14414	N	VAL	2160	13.717	-19.147	41.949	1.00	9.75
ATOM	14415	CA	VAL	2160	13.856	-17.939	42.764	1.00	10.64
ATOM	14416	CB	VAL	2160	14.334	-18.295	44.191	1.00	7.98
ATOM	14417	CG1	VAL	2160	14.487	-17.023	45.046	1.00	8.99
ATOM	14418	CG2	VAL	2160	13.339	-19.249	44.833	1.00	9.25
ATOM	14419	C	VAL	2160	14.827	-16.956	42.120	1.00	10.30
ATOM	14420	O	VAL	2160	15.966	-17.302	41.812	1.00	12.24
ATOM	14421	N	THR	2161	14.373	-15.718	41.940	1.00	10.56
ATOM	14422	CA	THR	2161	15.193	-14.686	41.310	1.00	13.51
ATOM	14423	CB	THR	2161	14.344	-13.853	40.324	1.00	17.26
ATOM	14424	OG1	THR	2161	13.616	-14.733	39.449	1.00	18.29
ATOM	14425	CG2	THR	2161	15.234	-12.954	39.478	1.00	19.77
ATOM	14426	C	THR	2161	15.811	-13.747	42.335	1.00	10.55
ATOM	14427	O	THR	2161	15.417	-13.755	43.496	1.00	11.77

ATOM	14428	N	VAL	2162	16.777	-12.940	41.897	1.00	12.13
ATOM	14429	CA	VAL	2162	17.435	-11.979	42.778	1.00	13.71
ATOM	14430	CB	VAL	2162	18.538	-11.216	42.019	1.00	15.08
ATOM	14431	CG1	VAL	2162	19.051	-10.057	42.858	1.00	16.93
ATOM	14432	CG2	VAL	2162	19.674	-12.172	41.676	1.00	15.68
ATOM	14433	C	VAL	2162	16.387	-11.000	43.310	1.00	13.50
ATOM	14434	O	VAL	2162	16.436	-10.571	44.469	1.00	14.68
ATOM	14435	N	ALA	2163	15.429	-10.662	42.455	1.00	13.50
ATOM	14436	CA	ALA	2163	14.352	-9.751	42.827	1.00	12.58
ATOM	14437	CB	ALA	2163	13.454	-9.473	41.606	1.00	13.55
ATOM	14438	C	ALA	2163	13.527	-10.352	43.956	1.00	12.11
ATOM	14439	O	ALA	2163	13.094	-9.637	44.872	1.00	10.50
ATOM	14440	N	ASP	2164	13.287	-11.664	43.886	1.00	10.69
ATOM	14441	CA	ASP	2164	12.515	-12.340	44.938	1.00	12.32
ATOM	14442	CB	ASP	2164	12.282	-13.822	44.607	1.00	10.37
ATOM	14443	CG	ASP	2164	11.413	-14.029	43.373	1.00	14.18
ATOM	14444	OD1	ASP	2164	10.593	-13.141	43.044	1.00	14.70
ATOM	14445	OD2	ASP	2164	11.546	-15.107	42.745	1.00	14.94
ATOM	14446	C	ASP	2164	13.272	-12.250	46.260	1.00	12.25
ATOM	14447	O	ASP	2164	12.696	-11.971	47.313	1.00	11.28
ATOM	14448	N	ILE	2165	14.574	-12.500	46.212	1.00	13.30
ATOM	14449	CA	ILE	2165	15.363	-12.429	47.433	1.00	11.13
ATOM	14450	CB	ILE	2165	16.827	-12.815	47.165	1.00	10.95
ATOM	14451	CG2	ILE	2165	17.668	-12.571	48.418	1.00	12.50
ATOM	14452	CG1	ILE	2165	16.905	-14.287	46.734	1.00	9.88
ATOM	14453	CD1	ILE	2165	16.581	-15.294	47.819	1.00	13.15
ATOM	14454	C	ILE	2165	15.317	-11.024	48.041	1.00	11.12
ATOM	14455	O	ILE	2165	15.125	-10.861	49.249	1.00	12.10
ATOM	14456	N	ALA	2166	15.478	-10.016	47.195	1.00	11.76
ATOM	14457	CA	ALA	2166	15.471	-8.618	47.634	1.00	11.59
ATOM	14458	CB	ALA	2166	15.742	-7.710	46.439	1.00	13.22
ATOM	14459	C	ALA	2166	14.154	-8.214	48.303	1.00	13.49
ATOM	14460	O	ALA	2166	14.139	-7.453	49.278	1.00	12.63
ATOM	14461	N	TYR	2167	13.056	-8.704	47.738	1.00	12.03
ATOM	14462	CA	TYR	2167	11.710	-8.448	48.230	1.00	12.41
ATOM	14463	CB	TYR	2167	10.711	-9.189	47.334	1.00	13.48
ATOM	14464	CG	TYR	2167	9.281	-9.135	47.805	1.00	12.75
ATOM	14465	CD1	TYR	2167	8.555	-7.946	47.742	1.00	15.28
ATOM	14466	CE1	TYR	2167	7.228	-7.895	48.153	1.00	14.62
ATOM	14467	CD2	TYR	2167	8.645	-10.276	48.299	1.00	13.65
ATOM	14468	CE2	TYR	2167	7.316	-10.233	48.715	1.00	13.81
ATOM	14469	CZ	TYR	2167	6.617	-9.038	48.637	1.00	13.06
ATOM	14470	OH	TYR	2167	5.303	-8.988	49.050	1.00	15.51
ATOM	14471	C	TYR	2167	11.578	-8.966	49.660	1.00	13.47
ATOM	14472	O	TYR	2167	11.200	-8.242	50.585	1.00	14.07
ATOM	14473	N	HIS	2168	11.902	-10.241	49.824	1.00	13.89
ATOM	14474	CA	HIS	2168	11.823	-10.890	51.120	1.00	13.79
ATOM	14475	CB	HIS	2168	11.943	-12.403	50.929	1.00	12.97
ATOM	14476	CG	HIS	2168	10.731	-13.014	50.289	1.00	14.62
ATOM	14477	CD2	HIS	2168	10.491	-13.400	49.012	1.00	13.57
ATOM	14478	ND1	HIS	2168	9.554	-13.220	50.976	1.00	13.84
ATOM	14479	CE1	HIS	2168	8.641	-13.706	50.152	1.00	15.74
ATOM	14480	NE2	HIS	2168	9.185	-13.825	48.954	1.00	11.68
ATOM	14481	C	HIS	2168	12.870	-10.356	52.104	1.00	14.35
ATOM	14482	O	HIS	2168	12.634	-10.331	53.313	1.00	14.35
ATOM	14483	N	THR	2169	14.011	-9.913	51.585	1.00	14.47
ATOM	14484	CA	THR	2169	15.068	-9.369	52.428	1.00	14.38
ATOM	14485	CB	THR	2169	16.367	-9.150	51.611	1.00	15.28
ATOM	14486	OG1	THR	2169	16.949	-10.425	51.308	1.00	12.29
ATOM	14487	CG2	THR	2169	17.369	-8.307	52.395	1.00	14.61
ATOM	14488	C	THR	2169	14.617	-8.050	53.079	1.00	14.47
ATOM	14489	O	THR	2169	14.784	-7.857	54.288	1.00	14.08
ATOM	14490	N	ALA	2170	14.025	-7.155	52.294	1.00	13.56
ATOM	14491	CA	ALA	2170	13.567	-5.886	52.840	1.00	13.22
ATOM	14492	CB	ALA	2170	13.008	-4.999	51.723	1.00	12.46
ATOM	14493	C	ALA	2170	12.498	-6.141	53.905	1.00	15.28
ATOM	14494	O	ALA	2170	12.467	-5.471	54.946	1.00	14.21
ATOM	14495	N	ALA	2171	11.635	-7.123	53.657	1.00	15.33
ATOM	14496	CA	ALA	2171	10.580	-7.447	54.613	1.00	15.79
ATOM	14497	CB	ALA	2171	9.646	-8.500	54.033	1.00	15.59
ATOM	14498	C	ALA	2171	11.163	-7.932	55.936	1.00	16.82
ATOM	14499	O	ALA	2171	10.733	-7.500	57.010	1.00	16.97
ATOM	14500	N	VAL	2172	12.146	-8.824	55.868	1.00	16.63
ATOM	14501	CA	VAL	2172	12.771	-9.341	57.085	1.00	16.23
ATOM	14502	CB	VAL	2172	13.769	-10.494	56.762	1.00	17.51
ATOM	14503	CG1	VAL	2172	14.616	-10.818	57.979	1.00	14.14
ATOM	14504	CG2	VAL	2172	12.999	-11.742	56.338	1.00	16.91

ATOM	14505	C	VAL	2172	13.484	-8.213	57.831	1.00	16.90
ATOM	14506	O	VAL	2172	13.432	-8.155	59.063	1.00	18.87
ATOM	14507	N	ARG	2173	14.138	-7.321	57.089	1.00	16.84
ATOM	14508	CA	ARG	2173	14.860	-6.195	57.689	1.00	17.87
ATOM	14509	CB	ARG	2173	15.594	-5.380	56.613	1.00	18.06
ATOM	14510	CG	ARG	2173	16.334	-4.149	57.156	1.00	17.82
ATOM	14511	CD	ARG	2173	17.239	-4.512	58.340	1.00	19.45
ATOM	14512	NE	ARG	2173	18.482	-5.163	57.929	1.00	18.22
ATOM	14513	CZ	ARG	2173	19.265	-5.871	58.740	1.00	18.73
ATOM	14514	NH1	ARG	2173	18.946	-6.037	60.017	1.00	17.92
ATOM	14515	NH2	ARG	2173	20.375	-6.418	58.274	1.00	17.07
ATOM	14516	C	ARG	2173	13.915	-5.283	58.467	1.00	19.95
ATOM	14517	O	ARG	2173	14.280	-4.753	59.523	1.00	18.61
ATOM	14518	N	ARG	2174	12.707	-5.089	57.945	1.00	18.95
ATOM	14519	CA	ARG	2174	11.722	-4.260	58.638	1.00	20.06
ATOM	14520	CB	ARG	2174	10.477	-4.041	57.774	1.00	18.51
ATOM	14521	CG	ARG	2174	10.726	-3.306	56.483	1.00	20.20
ATOM	14522	CD	ARG	2174	9.422	-2.876	55.813	1.00	22.84
ATOM	14523	NE	ARG	2174	9.707	-2.195	54.558	1.00	24.12
ATOM	14524	CZ	ARG	2174	9.783	-2.796	53.375	1.00	26.27
ATOM	14525	NH1	ARG	2174	9.576	-4.103	53.268	1.00	23.46
ATOM	14526	NH2	ARG	2174	10.109	-2.092	52.302	1.00	28.61
ATOM	14527	C	ARG	2174	11.319	-4.976	59.916	1.00	19.12
ATOM	14528	O	ARG	2174	11.045	-4.344	60.932	1.00	22.06
ATOM	14529	N	GLY	2175	11.289	-6.304	59.863	1.00	18.76
ATOM	14530	CA	GLY	2175	10.910	-7.080	61.034	1.00	19.18
ATOM	14531	C	GLY	2175	11.974	-7.136	62.117	1.00	19.83
ATOM	14532	O	GLY	2175	11.662	-7.173	63.311	1.00	19.15
ATOM	14533	N	ALA	2176	13.235	-7.126	61.695	1.00	17.37
ATOM	14534	CA	ALA	2176	14.365	-7.203	62.619	1.00	19.31
ATOM	14535	CB	ALA	2176	14.875	-8.644	62.690	1.00	20.30
ATOM	14536	C	ALA	2176	15.481	-6.278	62.155	1.00	20.49
ATOM	14537	O	ALA	2176	16.462	-6.728	61.560	1.00	20.07
ATOM	14538	N	PRO	2177	15.354	-4.972	62.444	1.00	21.58
ATOM	14539	CD	PRO	2177	14.298	-4.390	63.294	1.00	22.88
ATOM	14540	CA	PRO	2177	16.328	-3.943	62.064	1.00	22.64
ATOM	14541	CB	PRO	2177	15.653	-2.655	62.514	1.00	22.85
ATOM	14542	CG	PRO	2177	14.934	-3.088	63.739	1.00	25.21
ATOM	14543	C	PRO	2177	17.734	-4.080	62.631	1.00	22.77
ATOM	14544	O	PRO	2177	18.663	-3.437	62.139	1.00	23.87
ATOM	14545	N	ASN	2178	17.902	-4.910	63.654	1.00	22.77
ATOM	14546	CA	ASN	2178	19.222	-5.085	64.255	1.00	24.54
ATOM	14547	CB	ASN	2178	19.166	-4.740	65.747	1.00	28.89
ATOM	14548	CG	ASN	2178	18.808	-3.287	65.993	1.00	31.12
ATOM	14549	OD1	ASN	2178	19.380	-2.389	65.380	1.00	32.75
ATOM	14550	ND2	ASN	2178	17.861	-3.049	66.897	1.00	35.74
ATOM	14551	C	ASN	2178	19.814	-6.482	64.078	1.00	22.89
ATOM	14552	O	ASN	2178	20.908	-6.771	64.573	1.00	21.60
ATOM	14553	N	CYS	2179	19.105	-7.343	63.359	1.00	21.20
ATOM	14554	CA	CYS	2179	19.578	-8.708	63.156	1.00	19.54
ATOM	14555	CB	CYS	2179	18.419	-9.616	62.719	1.00	22.19
ATOM	14556	SG	CYS	2179	18.150	-9.714	60.895	1.00	21.61
ATOM	14557	C	CYS	2179	20.686	-8.781	62.114	1.00	18.00
ATOM	14558	O	CYS	2179	20.898	-7.845	61.336	1.00	16.56
ATOM	14559	N	LEU	2180	21.427	-9.882	62.144	1.00	17.26
ATOM	14560	CA	LEU	2180	22.466	-10.121	61.147	1.00	18.03
ATOM	14561	CB	LEU	2180	23.559	-11.046	61.684	1.00	18.50
ATOM	14562	CG	LEU	2180	24.622	-11.437	60.655	1.00	18.21
ATOM	14563	CD1	LEU	2180	25.331	-10.206	60.115	1.00	19.75
ATOM	14564	CD2	LEU	2180	25.616	-12.392	61.293	1.00	21.75
ATOM	14565	C	LEU	2180	21.647	-10.853	60.092	1.00	15.89
ATOM	14566	O	LEU	2180	21.164	-11.958	60.338	1.00	15.61
ATOM	14567	N	LEU	2181	21.483	-10.229	58.933	1.00	16.34
ATOM	14568	CA	LEU	2181	20.675	-10.802	57.865	1.00	15.32
ATOM	14569	CB	LEU	2181	19.730	-9.734	57.308	1.00	14.91
ATOM	14570	CG	LEU	2181	18.435	-10.175	56.612	1.00	15.55
ATOM	14571	CD1	LEU	2181	17.575	-8.936	56.395	1.00	16.38
ATOM	14572	CD2	LEU	2181	18.736	-10.863	55.293	1.00	20.67
ATOM	14573	C	LEU	2181	21.498	-11.382	56.727	1.00	13.75
ATOM	14574	O	LEU	2181	22.225	-10.657	56.053	1.00	14.71
ATOM	14575	N	LEU	2182	21.400	-12.690	56.525	1.00	13.90
ATOM	14576	CA	LEU	2182	22.123	-13.329	55.435	1.00	15.95
ATOM	14577	CB	LEU	2182	22.726	-14.660	55.875	1.00	15.67
ATOM	14578	CG	LEU	2182	24.149	-14.629	56.437	1.00	20.08
ATOM	14579	CD1	LEU	2182	24.196	-13.819	57.715	1.00	19.21
ATOM	14580	CD2	LEU	2182	24.609	-16.065	56.686	1.00	19.28
ATOM	14581	C	LEU	2182	21.136	-13.585	54.308	1.00	15.71

ATOM	14582	O	LEU	2182	20.040	-14.075	54.552	1.00	19.38
ATOM	14583	N	ALA	2183	21.508	-13.246	53.081	1.00	13.91
ATOM	14584	CA	ALA	2183	20.614	-13.486	51.962	1.00	14.60
ATOM	14585	CB	ALA	2183	20.126	-12.169	51.386	1.00	13.61
ATOM	14586	C	ALA	2183	21.314	-14.305	50.893	1.00	14.00
ATOM	14587	O	ALA	2183	22.471	-14.049	50.538	1.00	11.35
ATOM	14588	N	ASP	2184	20.609	-15.309	50.388	1.00	14.08
ATOM	14589	CA	ASP	2184	21.169	-16.162	49.346	1.00	16.54
ATOM	14590	CB	ASP	2184	20.341	-17.439	49.180	1.00	16.86
ATOM	14591	CG	ASP	2184	20.733	-18.535	50.138	1.00	20.98
ATOM	14592	OD1	ASP	2184	21.818	-18.459	50.747	1.00	22.21
ATOM	14593	OD2	ASP	2184	19.945	-19.496	50.255	1.00	20.02
ATOM	14594	C	ASP	2184	21.177	-15.479	47.997	1.00	14.79
ATOM	14595	O	ASP	2184	20.295	-14.678	47.694	1.00	15.78
ATOM	14596	N	LEU	2185	22.200	-15.764	47.200	1.00	14.30
ATOM	14597	CA	LEU	2185	22.205	-15.275	45.831	1.00	13.25
ATOM	14598	CB	LEU	2185	23.614	-15.010	45.302	1.00	15.09
ATOM	14599	CG	LEU	2185	24.210	-13.667	45.767	1.00	16.23
ATOM	14600	CD1	LEU	2185	25.463	-13.358	44.938	1.00	17.48
ATOM	14601	CD2	LEU	2185	23.181	-12.546	45.571	1.00	14.68
ATOM	14602	C	LEU	2185	21.618	-16.538	45.211	1.00	13.97
ATOM	14603	O	LEU	2185	22.118	-17.652	45.436	1.00	13.10
ATOM	14604	N	PRO	2186	20.525	-16.391	44.456	1.00	14.11
ATOM	14605	CD	PRO	2186	19.831	-15.118	44.188	1.00	15.09
ATOM	14606	CA	PRO	2186	19.847	-17.516	43.817	1.00	14.43
ATOM	14607	CB	PRO	2186	18.510	-16.910	43.396	1.00	15.40
ATOM	14608	CG	PRO	2186	18.872	-15.483	43.085	1.00	15.67
ATOM	14609	C	PRO	2186	20.584	-18.177	42.663	1.00	14.33
ATOM	14610	O	PRO	2186	21.688	-17.782	42.302	1.00	15.03
ATOM	14611	N	PHE	2187	19.945	-19.197	42.100	1.00	13.69
ATOM	14612	CA	PHE	2187	20.481	-19.951	40.977	1.00	12.48
ATOM	14613	CB	PHE	2187	19.404	-20.933	40.493	1.00	10.11
ATOM	14614	CG	PHE	2187	19.660	-21.528	39.131	1.00	13.16
ATOM	14615	CD1	PHE	2187	20.749	-22.365	38.904	1.00	11.33
ATOM	14616	CD2	PHE	2187	18.751	-21.300	38.088	1.00	12.80
ATOM	14617	CE1	PHE	2187	20.934	-22.979	37.655	1.00	14.13
ATOM	14618	CE2	PHE	2187	18.914	-21.899	36.837	1.00	12.25
ATOM	14619	CZ	PHE	2187	20.005	-22.739	36.619	1.00	13.80
ATOM	14620	C	PHE	2187	20.938	-19.024	39.849	1.00	11.25
ATOM	14621	O	PHE	2187	20.224	-18.098	39.452	1.00	11.41
ATOM	14622	N	MET	2188	22.147	-19.282	39.358	1.00	12.61
ATOM	14623	CA	MET	2188	22.762	-18.531	38.275	1.00	13.77
ATOM	14624	CB	MET	2188	22.055	-18.862	36.943	1.00	13.96
ATOM	14625	CG	MET	2188	22.956	-18.723	35.707	1.00	16.90
ATOM	14626	SD	MET	2188	24.400	-19.853	35.851	1.00	12.86
ATOM	14627	CE	MET	2188	23.813	-21.357	35.069	1.00	19.25
ATOM	14628	C	MET	2188	22.778	-17.015	38.519	1.00	14.59
ATOM	14629	O	MET	2188	22.648	-16.226	37.584	1.00	16.18
ATOM	14630	N	ALA	2189	22.933	-16.599	39.775	1.00	13.29
ATOM	14631	CA	ALA	2189	22.986	-15.167	40.099	1.00	13.72
ATOM	14632	CB	ALA	2189	22.112	-14.864	41.333	1.00	12.70
ATOM	14633	C	ALA	2189	24.437	-14.747	40.359	1.00	14.21
ATOM	14634	O	ALA	2189	24.719	-13.580	40.633	1.00	15.89
ATOM	14635	N	TYR	2190	25.357	-15.708	40.278	1.00	12.28
ATOM	14636	CA	TYR	2190	26.789	-15.433	40.483	1.00	13.07
ATOM	14637	CB	TYR	2190	27.175	-15.714	41.946	1.00	12.91
ATOM	14638	CG	TYR	2190	26.689	-17.035	42.515	1.00	11.62
ATOM	14639	CD1	TYR	2190	27.524	-18.156	42.554	1.00	11.92
ATOM	14640	CE1	TYR	2190	27.087	-19.366	43.090	1.00	12.64
ATOM	14641	CD2	TYR	2190	25.396	-17.158	43.027	1.00	14.06
ATOM	14642	CE2	TYR	2190	24.944	-18.360	43.563	1.00	13.68
ATOM	14643	CZ	TYR	2190	25.793	-19.461	43.593	1.00	14.72
ATOM	14644	OH	TYR	2190	25.349	-20.652	44.128	1.00	15.24
ATOM	14645	C	TYR	2190	27.650	-16.262	39.515	1.00	14.64
ATOM	14646	O	TYR	2190	28.681	-16.822	39.887	1.00	14.18
ATOM	14647	N	ALA	2191	27.194	-16.316	38.267	1.00	13.79
ATOM	14648	CA	ALA	2191	27.843	-17.062	37.194	1.00	14.38
ATOM	14649	CB	ALA	2191	26.929	-17.077	35.976	1.00	13.74
ATOM	14650	C	ALA	2191	29.211	-16.503	36.808	1.00	13.17
ATOM	14651	O	ALA	2191	30.072	-17.240	36.331	1.00	12.13
ATOM	14652	N	THR	2192	29.382	-15.198	36.998	1.00	12.89
ATOM	14653	CA	THR	2192	30.629	-14.500	36.705	1.00	14.63
ATOM	14654	CB	THR	2192	30.560	-13.704	35.386	1.00	15.14
ATOM	14655	OG1	THR	2192	29.676	-12.583	35.546	1.00	13.87
ATOM	14656	CG2	THR	2192	30.036	-14.589	34.254	1.00	15.22
ATOM	14657	C	THR	2192	30.828	-13.495	37.835	1.00	16.27
ATOM	14658	O	THR	2192	29.873	-13.126	38.517	1.00	15.41

ATOM	14659	N	PRO	2193	32.073	-13.042	38.053	1.00	16.19
ATOM	14660	CD	PRO	2193	33.343	-13.538	37.490	1.00	16.85
ATOM	14661	CA	PRO	2193	32.315	-12.073	39.124	1.00	16.55
ATOM	14662	CB	PRO	2193	33.803	-11.792	38.992	1.00	18.64
ATOM	14663	CG	PRO	2193	34.343	-13.133	38.552	1.00	17.11
ATOM	14664	C	PRO	2193	31.465	-10.824	38.937	1.00	15.31
ATOM	14665	O	PRO	2193	30.831	-10.354	39.876	1.00	15.59
ATOM	14666	N	GLU	2194	31.454	-10.296	37.718	1.00	16.75
ATOM	14667	CA	GLU	2194	30.687	-9.098	37.419	1.00	17.91
ATOM	14668	CB	GLU	2194	30.858	-8.711	35.948	1.00	23.31
ATOM	14669	CG	GLU	2194	32.215	-8.092	35.630	1.00	30.85
ATOM	14670	CD	GLU	2194	32.409	-7.831	34.149	1.00	35.36
ATOM	14671	OE1	GLU	2194	31.524	-7.192	33.537	1.00	39.04
ATOM	14672	OE2	GLU	2194	33.450	-8.260	33.598	1.00	39.02
ATOM	14673	C	GLU	2194	29.206	-9.245	37.757	1.00	17.81
ATOM	14674	O	GLU	2194	28.602	-8.322	38.304	1.00	17.37
ATOM	14675	N	GLN	2195	28.612	-10.390	37.435	1.00	15.20
ATOM	14676	CA	GLN	2195	27.199	-10.586	37.744	1.00	16.01
ATOM	14677	CB	GLN	2195	26.642	-11.799	36.994	1.00	17.15
ATOM	14678	CG	GLN	2195	26.551	-11.574	35.488	1.00	21.26
ATOM	14679	CD	GLN	2195	26.048	-12.795	34.750	1.00	25.19
ATOM	14680	OE1	GLN	2195	24.964	-13.304	35.038	1.00	25.51
ATOM	14681	NE2	GLN	2195	26.835	-13.273	33.787	1.00	28.35
ATOM	14682	C	GLN	2195	27.006	-10.756	39.248	1.00	14.45
ATOM	14683	O	GLN	2195	26.010	-10.300	39.798	1.00	14.86
ATOM	14684	N	ALA	2196	27.966	-11.407	39.899	1.00	12.21
ATOM	14685	CA	ALA	2196	27.908	-11.620	41.329	1.00	12.40
ATOM	14686	CB	ALA	2196	29.105	-12.455	41.795	1.00	13.23
ATOM	14687	C	ALA	2196	27.898	-10.272	42.047	1.00	11.64
ATOM	14688	O	ALA	2196	27.146	-10.072	43.010	1.00	11.62
ATOM	14689	N	PHE	2197	28.727	-9.346	41.571	1.00	11.56
ATOM	14690	CA	PHE	2197	28.809	-8.007	42.164	1.00	13.89
ATOM	14691	CB	PHE	2197	29.858	-7.146	41.442	1.00	13.21
ATOM	14692	CG	PHE	2197	31.236	-7.743	41.414	1.00	12.74
ATOM	14693	CD1	PHE	2197	31.673	-8.576	42.432	1.00	13.16
ATOM	14694	CD2	PHE	2197	32.106	-7.448	40.368	1.00	17.01
ATOM	14695	CE1	PHE	2197	32.962	-9.119	42.413	1.00	16.01
ATOM	14696	CE2	PHE	2197	33.397	-7.981	40.332	1.00	15.05
ATOM	14697	CZ	PHE	2197	33.819	-8.815	41.355	1.00	15.53
ATOM	14698	C	PHE	2197	27.469	-7.282	42.071	1.00	15.38
ATOM	14699	O	PHE	2197	26.976	-6.713	43.047	1.00	15.31
ATOM	14700	N	GLU	2198	26.900	-7.296	40.874	1.00	16.38
ATOM	14701	CA	GLU	2198	25.636	-6.629	40.619	1.00	18.38
ATOM	14702	CB	GLU	2198	25.286	-6.745	39.134	1.00	21.89
ATOM	14703	CG	GLU	2198	24.046	-5.985	38.698	1.00	28.47
ATOM	14704	CD	GLU	2198	24.133	-4.486	38.975	1.00	31.20
ATOM	14705	OE1	GLU	2198	25.253	-3.974	39.213	1.00	31.05
ATOM	14706	OE2	GLU	2198	23.074	-3.823	38.939	1.00	33.83
ATOM	14707	C	GLU	2198	24.502	-7.198	41.463	1.00	16.31
ATOM	14708	O	GLU	2198	23.748	-6.451	42.088	1.00	15.63
ATOM	14709	N	ASN	2199	24.390	-8.520	41.488	1.00	14.90
ATOM	14710	CA	ASN	2199	23.331	-9.173	42.234	1.00	15.15
ATOM	14711	CB	ASN	2199	23.176	-10.619	41.748	1.00	14.55
ATOM	14712	CG	ASN	2199	22.703	-10.687	40.306	1.00	14.12
ATOM	14713	OD1	ASN	2199	21.887	-9.869	39.880	1.00	13.06
ATOM	14714	ND2	ASN	2199	23.196	-11.666	39.551	1.00	16.16
ATOM	14715	C	ASN	2199	23.537	-9.112	43.737	1.00	13.30
ATOM	14716	O	ASN	2199	22.576	-8.971	44.494	1.00	11.68
ATOM	14717	N	ALA	2200	24.790	-9.200	44.170	1.00	13.38
ATOM	14718	CA	ALA	2200	25.106	-9.121	45.596	1.00	14.01
ATOM	14719	CB	ALA	2200	26.601	-9.377	45.819	1.00	14.48
ATOM	14720	C	ALA	2200	24.738	-7.720	46.092	1.00	12.03
ATOM	14721	O	ALA	2200	24.204	-7.558	47.189	1.00	13.32
ATOM	14722	N	ALA	2201	25.022	-6.713	45.271	1.00	13.67
ATOM	14723	CA	ALA	2201	24.716	-5.335	45.625	1.00	13.13
ATOM	14724	CB	ALA	2201	25.285	-4.370	44.573	1.00	13.81
ATOM	14725	C	ALA	2201	23.206	-5.132	45.751	1.00	13.16
ATOM	14726	O	ALA	2201	22.736	-4.435	46.645	1.00	15.03
ATOM	14727	N	THR	2202	22.446	-5.743	44.853	1.00	13.60
ATOM	14728	CA	THR	2202	20.999	-5.613	44.897	1.00	11.59
ATOM	14729	CB	THR	2202	20.353	-6.445	43.798	1.00	10.38
ATOM	14730	OG1	THR	2202	20.822	-5.973	42.537	1.00	11.16
ATOM	14731	CG2	THR	2202	18.836	-6.331	43.848	1.00	11.71
ATOM	14732	C	THR	2202	20.446	-6.068	46.244	1.00	11.76
ATOM	14733	O	THR	2202	19.665	-5.361	46.896	1.00	12.13
ATOM	14734	N	VAL	2203	20.867	-7.252	46.658	1.00	11.71
ATOM	14735	CA	VAL	2203	20.431	-7.835	47.908	1.00	14.15



ATOM	14736	CB	VAL	2203	20.883	-9.303	47.970	1.00	17.90
ATOM	14737	CG1	VAL	2203	20.327	-9.969	49.200	1.00	22.76
ATOM	14738	CG2	VAL	2203	20.393	-10.031	46.713	1.00	21.66
ATOM	14739	C	VAL	2203	20.953	-7.062	49.116	1.00	13.49
ATOM	14740	O	VAL	2203	20.251	-6.904	50.122	1.00	11.71
ATOM	14741	N	MET	2204	22.182	-6.570	49.026	1.00	12.79
ATOM	14742	CA	MET	2204	22.743	-5.798	50.136	1.00	15.57
ATOM	14743	CB	MET	2204	24.224	-5.501	49.875	1.00	16.63
ATOM	14744	CG	MET	2204	25.104	-6.724	49.887	1.00	18.75
ATOM	14745	SD	MET	2204	25.263	-7.508	51.497	1.00	19.13
ATOM	14746	CE	MET	2204	26.337	-6.307	52.339	1.00	18.60
ATOM	14747	C	MET	2204	21.963	-4.497	50.308	1.00	14.20
ATOM	14748	O	MET	2204	21.556	-4.147	51.421	1.00	13.48
ATOM	14749	N	ARG	2205	21.739	-3.785	49.208	1.00	13.14
ATOM	14750	CA	ARG	2205	20.995	-2.527	49.284	1.00	13.16
ATOM	14751	CB	ARG	2205	20.887	-1.887	47.898	1.00	13.73
ATOM	14752	CG	ARG	2205	22.229	-1.512	47.283	1.00	15.34
ATOM	14753	CD	ARG	2205	22.044	-0.529	46.141	1.00	14.72
ATOM	14754	NE	ARG	2205	23.263	-0.355	45.349	1.00	16.85
ATOM	14755	CZ	ARG	2205	23.591	-1.101	44.299	1.00	15.47
ATOM	14756	NH1	ARG	2205	22.791	-2.083	43.900	1.00	16.64
ATOM	14757	NH2	ARG	2205	24.717	-0.857	43.642	1.00	16.81
ATOM	14758	C	ARG	2205	19.601	-2.780	49.859	1.00	15.15
ATOM	14759	O	ARG	2205	19.033	-1.919	50.530	1.00	13.24
ATOM	14760	N	ALA	2206	19.071	-3.975	49.602	1.00	13.63
ATOM	14761	CA	ALA	2206	17.750	-4.366	50.090	1.00	14.83
ATOM	14762	CB	ALA	2206	17.292	-5.649	49.393	1.00	14.81
ATOM	14763	C	ALA	2206	17.717	-4.559	51.609	1.00	15.51
ATOM	14764	O	ALA	2206	16.645	-4.607	52.209	1.00	15.01
ATOM	14765	N	GLY	2207	18.888	-4.689	52.226	1.00	14.53
ATOM	14766	CA	GLY	2207	18.933	-4.854	53.666	1.00	14.24
ATOM	14767	C	GLY	2207	19.806	-5.969	54.210	1.00	14.79
ATOM	14768	O	GLY	2207	19.965	-6.098	55.430	1.00	13.55
ATOM	14769	N	ALA	2208	20.384	-6.782	53.330	1.00	13.05
ATOM	14770	CA	ALA	2208	21.235	-7.878	53.790	1.00	13.56
ATOM	14771	CB	ALA	2208	21.478	-8.860	52.650	1.00	14.49
ATOM	14772	C	ALA	2208	22.568	-7.351	54.310	1.00	13.56
ATOM	14773	O	ALA	2208	22.982	-6.257	53.946	1.00	14.11
ATOM	14774	N	ASN	2209	23.216	-8.112	55.187	1.00	14.56
ATOM	14775	CA	ASN	2209	24.526	-7.715	55.720	1.00	16.30
ATOM	14776	CB	ASN	2209	24.596	-7.881	57.236	1.00	17.22
ATOM	14777	CG	ASN	2209	23.534	-7.107	57.964	1.00	15.22
ATOM	14778	OD1	ASN	2209	23.458	-5.884	57.868	1.00	20.45
ATOM	14779	ND2	ASN	2209	22.707	-7.821	58.711	1.00	13.67
ATOM	14780	C	ASN	2209	25.579	-8.641	55.139	1.00	16.35
ATOM	14781	O	ASN	2209	26.776	-8.360	55.194	1.00	16.50
ATOM	14782	N	MET	2210	25.113	-9.755	54.594	1.00	16.82
ATOM	14783	CA	MET	2210	25.996	-10.772	54.051	1.00	16.51
ATOM	14784	CB	MET	2210	26.474	-11.661	55.197	1.00	18.41
ATOM	14785	CG	MET	2210	27.305	-12.865	54.798	1.00	19.82
ATOM	14786	SD	MET	2210	27.830	-13.789	56.264	1.00	21.89
ATOM	14787	CE	MET	2210	29.505	-13.207	56.418	1.00	21.07
ATOM	14788	C	MET	2210	25.262	-11.605	53.015	1.00	16.91
ATOM	14789	O	MET	2210	24.049	-11.784	53.100	1.00	14.74
ATOM	14790	N	VAL	2211	26.009	-12.110	52.041	1.00	15.70
ATOM	14791	CA	VAL	2211	25.444	-12.926	50.978	1.00	16.74
ATOM	14792	CB	VAL	2211	25.795	-12.306	49.613	1.00	19.57
ATOM	14793	CG1	VAL	2211	25.664	-13.330	48.525	1.00	23.64
ATOM	14794	CG2	VAL	2211	24.890	-11.110	49.342	1.00	18.37
ATOM	14795	C	VAL	2211	25.982	-14.356	51.052	1.00	17.23
ATOM	14796	O	VAL	2211	27.151	-14.570	51.388	1.00	17.13
ATOM	14797	N	LYS	2212	25.130	-15.334	50.757	1.00	18.13
ATOM	14798	CA	LYS	2212	25.558	-16.726	50.767	1.00	17.96
ATOM	14799	CB	LYS	2212	24.650	-17.582	51.669	1.00	17.25
ATOM	14800	CG	LYS	2212	25.056	-19.051	51.721	1.00	17.85
ATOM	14801	CD	LYS	2212	24.563	-19.773	52.981	1.00	19.98
ATOM	14802	CE	LYS	2212	23.056	-19.981	52.972	1.00	20.44
ATOM	14803	NZ	LYS	2212	22.617	-20.726	51.751	1.00	19.76
ATOM	14804	C	LYS	2212	25.527	-17.254	49.339	1.00	19.04
ATOM	14805	O	LYS	2212	24.612	-16.947	48.568	1.00	18.54
ATOM	14806	N	ILE	2213	26.548	-18.028	48.983	1.00	17.52
ATOM	14807	CA	ILE	2213	26.643	-18.610	47.650	1.00	17.09
ATOM	14808	CB	ILE	2213	27.620	-17.808	46.749	1.00	17.18
ATOM	14809	CG2	ILE	2213	27.019	-16.453	46.418	1.00	19.75
ATOM	14810	CG1	ILE	2213	28.972	-17.636	47.447	1.00	20.12
ATOM	14811	CD1	ILE	2213	29.984	-16.858	46.638	1.00	18.91
ATOM	14812	C	ILE	2213	27.113	-20.053	47.763	1.00	17.08

ATOM	14813	O	ILE	2213	27.899	-20.384	48.648	1.00	17.01
ATOM	14814	N	GLU	2214	26.623	-20.908	46.868	1.00	17.34
ATOM	14815	CA	GLU	2214	26.960	-22.331	46.885	1.00	18.18
ATOM	14816	CB	GLU	2214	25.729	-23.170	46.518	1.00	19.12
ATOM	14817	CG	GLU	2214	24.448	-22.784	47.239	1.00	20.19
ATOM	14818	CD	GLU	2214	23.272	-23.676	46.855	1.00	23.23
ATOM	14819	OE1	GLU	2214	23.371	-24.392	45.835	1.00	22.32
ATOM	14820	OE2	GLU	2214	22.243	-23.657	47.563	1.00	22.19
ATOM	14821	C	GLU	2214	28.086	-22.665	45.913	1.00	18.52
ATOM	14822	O	GLU	2214	28.089	-22.200	44.775	1.00	17.83
ATOM	14823	N	GLY	2215	29.048	-23.467	46.361	1.00	19.25
ATOM	14824	CA	GLY	2215	30.148	-23.837	45.484	1.00	21.18
ATOM	14825	C	GLY	2215	31.491	-23.915	46.182	1.00	21.73
ATOM	14826	O	GLY	2215	31.679	-23.332	47.249	1.00	20.66
ATOM	14827	N	GLY	2216	32.434	-24.629	45.575	1.00	22.21
ATOM	14828	CA	GLY	2216	33.749	-24.765	46.176	1.00	21.89
ATOM	14829	C	GLY	2216	34.841	-23.888	45.590	1.00	21.57
ATOM	14830	O	GLY	2216	34.682	-22.676	45.445	1.00	22.59
ATOM	14831	N	GLU	2217	35.962	-24.524	45.266	1.00	22.40
ATOM	14832	CA	GLU	2217	37.140	-23.869	44.701	1.00	23.58
ATOM	14833	CB	GLU	2217	38.119	-24.934	44.188	1.00	26.77
ATOM	14834	CG	GLU	2217	39.116	-25.430	45.213	1.00	34.27
ATOM	14835	CD	GLU	2217	40.230	-24.431	45.458	1.00	37.56
ATOM	14836	OE1	GLU	2217	39.934	-23.296	45.880	1.00	41.29
ATOM	14837	OE2	GLU	2217	41.405	-24.777	45.223	1.00	40.20
ATOM	14838	C	GLU	2217	36.881	-22.869	43.584	1.00	20.77
ATOM	14839	O	GLU	2217	37.519	-21.817	43.531	1.00	19.61
ATOM	14840	N	TRP	2218	35.950	-23.185	42.690	1.00	19.83
ATOM	14841	CA	TRP	2218	35.678	-22.291	41.576	1.00	18.55
ATOM	14842	CB	TRP	2218	34.673	-22.922	40.603	1.00	20.02
ATOM	14843	CG	TRP	2218	33.243	-22.946	41.065	1.00	18.78
ATOM	14844	CD2	TRP	2218	32.217	-22.023	40.687	1.00	17.40
ATOM	14845	CE2	TRP	2218	31.023	-22.440	41.318	1.00	16.35
ATOM	14846	CE3	TRP	2218	32.191	-20.881	39.875	1.00	15.52
ATOM	14847	CD1	TRP	2218	32.654	-23.860	41.889	1.00	19.14
ATOM	14848	NE1	TRP	2218	31.315	-23.566	42.044	1.00	19.28
ATOM	14849	CZ2	TRP	2218	29.812	-21.753	41.161	1.00	17.53
ATOM	14850	CZ3	TRP	2218	30.985	-20.199	39.719	1.00	17.03
ATOM	14851	CH2	TRP	2218	29.812	-20.640	40.362	1.00	15.23
ATOM	14852	C	TRP	2218	35.204	-20.906	42.006	1.00	17.22
ATOM	14853	O	TRP	2218	35.307	-19.950	41.237	1.00	17.68
ATOM	14854	N	LEU	2219	34.703	-20.792	43.233	1.00	17.71
ATOM	14855	CA	LEU	2219	34.213	-19.509	43.751	1.00	18.36
ATOM	14856	CB	LEU	2219	33.130	-19.746	44.809	1.00	18.12
ATOM	14857	CG	LEU	2219	31.749	-20.160	44.306	1.00	21.23
ATOM	14858	CD1	LEU	2219	30.838	-20.464	45.498	1.00	21.25
ATOM	14859	CD2	LEU	2219	31.158	-19.035	43.455	1.00	19.14
ATOM	14860	C	LEU	2219	35.299	-18.616	44.350	1.00	19.10
ATOM	14861	O	LEU	2219	35.067	-17.432	44.601	1.00	16.47
ATOM	14862	N	VAL	2220	36.482	-19.178	44.577	1.00	18.67
ATOM	14863	CA	VAL	2220	37.586	-18.417	45.162	1.00	19.82
ATOM	14864	CB	VAL	2220	38.933	-19.139	44.930	1.00	20.78
ATOM	14865	CG1	VAL	2220	40.091	-18.231	45.324	1.00	21.55
ATOM	14866	CG2	VAL	2220	38.966	-20.415	45.742	1.00	22.40
ATOM	14867	C	VAL	2220	37.714	-16.976	44.663	1.00	18.36
ATOM	14868	O	VAL	2220	37.677	-16.045	45.457	1.00	19.22
ATOM	14869	N	GLU	2221	37.864	-16.797	43.353	1.00	17.93
ATOM	14870	CA	GLU	2221	38.010	-15.462	42.790	1.00	18.36
ATOM	14871	CB	GLU	2221	38.208	-15.543	41.281	1.00	20.61
ATOM	14872	CG	GLU	2221	38.200	-14.198	40.587	1.00	26.76
ATOM	14873	CD	GLU	2221	38.529	-14.303	39.113	1.00	30.40
ATOM	14874	OE1	GLU	2221	37.805	-15.014	38.385	1.00	30.39
ATOM	14875	OE2	GLU	2221	39.517	-13.673	38.687	1.00	33.96
ATOM	14876	C	GLU	2221	36.811	-14.567	43.091	1.00	18.56
ATOM	14877	O	GLU	2221	36.965	-13.395	43.436	1.00	16.57
ATOM	14878	N	THR	2222	35.617	-15.126	42.946	1.00	17.43
ATOM	14879	CA	THR	2222	34.397	-14.381	43.197	1.00	17.79
ATOM	14880	CB	THR	2222	33.161	-15.243	42.872	1.00	17.87
ATOM	14881	OG1	THR	2222	33.175	-15.576	41.480	1.00	19.38
ATOM	14882	CG2	THR	2222	31.882	-14.485	43.188	1.00	19.18
ATOM	14883	C	THR	2222	34.326	-13.895	44.645	1.00	16.86
ATOM	14884	O	THR	2222	33.974	-12.741	44.904	1.00	15.36
ATOM	14885	N	VAL	2223	34.681	-14.767	45.586	1.00	17.57
ATOM	14886	CA	VAL	2223	34.654	-14.412	47.003	1.00	17.48
ATOM	14887	CB	VAL	2223	34.958	-15.631	47.898	1.00	18.55
ATOM	14888	CG1	VAL	2223	34.953	-15.211	49.373	1.00	20.37
ATOM	14889	CG2	VAL	2223	33.932	-16.721	47.652	1.00	16.46

ATOM	14890	C	VAL	2223	35.666	-13.320	47.329	1.00	19.79
ATOM	14891	O	VAL	2223	35.352	-12.349	48.024	1.00	17.16
ATOM	14892	N	GLN	2224	36.885	-13.489	46.827	1.00	18.72
ATOM	14893	CA	GLN	2224	37.940	-12.515	47.065	1.00	21.39
ATOM	14894	CB	GLN	2224	39.233	-12.925	46.346	1.00	24.26
ATOM	14895	CG	GLN	2224	39.725	-14.335	46.648	1.00	29.53
ATOM	14896	CD	GLN	2224	41.050	-14.655	45.953	1.00	33.18
ATOM	14897	OE1	GLN	2224	41.196	-14.464	44.738	1.00	33.20
ATOM	14898	NE2	GLN	2224	42.018	-15.150	46.722	1.00	32.66
ATOM	14899	C	GLN	2224	37.502	-11.148	46.554	1.00	19.64
ATOM	14900	O	GLN	2224	37.628	-10.149	47.253	1.00	19.34
ATOM	14901	N	MET	2225	36.978	-11.108	45.335	1.00	19.03
ATOM	14902	CA	MET	2225	36.552	-9.846	44.744	1.00	18.40
ATOM	14903	CB	MET	2225	36.306	-10.026	43.249	1.00	18.27
ATOM	14904	CG	MET	2225	37.591	-10.324	42.483	1.00	22.00
ATOM	14905	SD	MET	2225	37.353	-10.429	40.706	1.00	21.95
ATOM	14906	CE	MET	2225	37.447	-8.712	40.259	1.00	20.84
ATOM	14907	C	MET	2225	35.334	-9.226	45.415	1.00	17.69
ATOM	14908	O	MET	2225	35.232	-8.003	45.519	1.00	16.95
ATOM	14909	N	LEU	2226	34.411	-10.063	45.866	1.00	17.48
ATOM	14910	CA	LEU	2226	33.228	-9.557	46.547	1.00	17.32
ATOM	14911	CB	LEU	2226	32.245	-10.689	46.819	1.00	16.18
ATOM	14912	CG	LEU	2226	31.283	-11.057	45.681	1.00	14.70
ATOM	14913	CD1	LEU	2226	30.554	-12.330	46.056	1.00	10.61
ATOM	14914	CD2	LEU	2226	30.287	-9.923	45.438	1.00	15.10
ATOM	14915	C	LEU	2226	33.622	-8.897	47.864	1.00	17.88
ATOM	14916	O	LEU	2226	33.203	-7.777	48.158	1.00	16.44
ATOM	14917	N	THR	2227	34.429	-9.601	48.650	1.00	20.52
ATOM	14918	CA	THR	2227	34.889	-9.099	49.946	1.00	24.25
ATOM	14919	CB	THR	2227	35.886	-10.078	50.593	1.00	25.62
ATOM	14920	OG1	THR	2227	35.234	-11.334	50.830	1.00	29.56
ATOM	14921	CG2	THR	2227	36.391	-9.524	51.925	1.00	31.43
ATOM	14922	C	THR	2227	35.543	-7.721	49.851	1.00	24.33
ATOM	14923	O	THR	2227	35.235	-6.825	50.643	1.00	25.20
ATOM	14924	N	GLU	2228	36.447	-7.546	48.892	1.00	25.76
ATOM	14925	CA	GLU	2228	37.114	-6.259	48.737	1.00	26.35
ATOM	14926	CB	GLU	2228	38.353	-6.391	47.838	1.00	30.63
ATOM	14927	CG	GLU	2228	38.203	-7.358	46.687	1.00	31.85
ATOM	14928	CD	GLU	2228	39.465	-7.474	45.846	1.00	33.25
ATOM	14929	OE1	GLU	2228	40.557	-7.670	46.422	1.00	35.06
ATOM	14930	OE2	GLU	2228	39.368	-7.385	44.607	1.00	28.52
ATOM	14931	C	GLU	2228	36.160	-5.202	48.190	1.00	26.51
ATOM	14932	O	GLU	2228	36.475	-4.013	48.176	1.00	26.37
ATOM	14933	N	ARG	2229	34.983	-5.632	47.747	1.00	23.68
ATOM	14934	CA	ARG	2229	34.004	-4.690	47.228	1.00	22.45
ATOM	14935	CB	ARG	2229	33.456	-5.199	45.893	1.00	21.74
ATOM	14936	CG	ARG	2229	34.481	-5.021	44.779	1.00	21.55
ATOM	14937	CD	ARG	2229	34.202	-5.839	43.529	1.00	19.25
ATOM	14938	NE	ARG	2229	35.257	-5.628	42.538	1.00	16.72
ATOM	14939	CZ	ARG	2229	36.528	-5.998	42.696	1.00	14.29
ATOM	14940	NH1	ARG	2229	36.918	-6.607	43.804	1.00	14.68
ATOM	14941	NH2	ARG	2229	37.421	-5.745	41.748	1.00	16.15
ATOM	14942	C	ARG	2229	32.894	-4.421	48.244	1.00	20.95
ATOM	14943	O	ARG	2229	31.753	-4.099	47.889	1.00	21.04
ATOM	14944	N	ALA	2230	33.254	-4.570	49.517	1.00	19.92
ATOM	14945	CA	ALA	2230	32.362	-4.309	50.646	1.00	17.61
ATOM	14946	CB	ALA	2230	31.750	-2.915	50.500	1.00	20.44
ATOM	14947	C	ALA	2230	31.265	-5.336	50.912	1.00	18.57
ATOM	14948	O	ALA	2230	30.374	-5.085	51.722	1.00	17.70
ATOM	14949	N	VAL	2231	31.335	-6.493	50.254	1.00	17.15
ATOM	14950	CA	VAL	2231	30.324	-7.534	50.444	1.00	17.76
ATOM	14951	CB	VAL	2231	29.729	-8.000	49.083	1.00	17.93
ATOM	14952	CG1	VAL	2231	28.669	-9.075	49.316	1.00	17.35
ATOM	14953	CG2	VAL	2231	29.125	-6.822	48.335	1.00	17.32
ATOM	14954	C	VAL	2231	30.824	-8.783	51.183	1.00	17.83
ATOM	14955	O	VAL	2231	31.576	-9.582	50.623	1.00	18.81
ATOM	14956	N	PRO	2232	30.412	-8.969	52.450	1.00	16.77
ATOM	14957	CD	PRO	2232	29.701	-8.061	53.370	1.00	17.78
ATOM	14958	CA	PRO	2232	30.884	-10.168	53.145	1.00	16.29
ATOM	14959	CB	PRO	2232	30.523	-9.898	54.608	1.00	18.07
ATOM	14960	CG	PRO	2232	29.390	-8.958	54.529	1.00	18.75
ATOM	14961	C	PRO	2232	30.191	-11.391	52.557	1.00	15.35
ATOM	14962	O	PRO	2232	29.048	-11.309	52.093	1.00	15.40
ATOM	14963	N	VAL	2233	30.887	-12.520	52.576	1.00	16.70
ATOM	14964	CA	VAL	2233	30.365	-13.753	51.995	1.00	15.99
ATOM	14965	CB	VAL	2233	31.225	-14.174	50.772	1.00	17.33
ATOM	14966	CG1	VAL	2233	30.743	-15.516	50.231	1.00	15.74

ATOM	14967	CG2	VAL	2233	31.189	-13.105	49.708	1.00	16.38
ATOM	14968	C	VAL	2233	30.316	-14.958	52.924	1.00	16.80
ATOM	14969	O	VAL	2233	31.250	-15.224	53.681	1.00	16.97
ATOM	14970	N	CYS	2234	29.217	-15.695	52.838	1.00	15.58
ATOM	14971	CA	CYS	2234	29.055	-16.917	53.599	1.00	16.50
ATOM	14972	CB	CYS	2234	27.683	-16.974	54.281	1.00	15.73
ATOM	14973	SG	CYS	2234	27.369	-18.518	55.159	1.00	16.61
ATOM	14974	C	CYS	2234	29.140	-18.027	52.552	1.00	18.28
ATOM	14975	O	CYS	2234	28.428	-17.992	51.544	1.00	19.80
ATOM	14976	N	GLY	2235	30.027	-18.990	52.775	1.00	17.80
ATOM	14977	CA	GLY	2235	30.162	-20.093	51.841	1.00	17.79
ATOM	14978	C	GLY	2235	29.081	-21.125	52.090	1.00	16.39
ATOM	14979	O	GLY	2235	28.330	-21.021	53.060	1.00	16.55
ATOM	14980	N	HIS	2236	28.989	-22.123	51.219	1.00	16.49
ATOM	14981	CA	HIS	2236	27.981	-23.169	51.378	1.00	19.27
ATOM	14982	CB	HIS	2236	26.646	-22.690	50.790	1.00	19.17
ATOM	14983	CG	HIS	2236	25.489	-23.600	51.058	1.00	20.45
ATOM	14984	CD2	HIS	2236	25.434	-24.925	51.334	1.00	21.15
ATOM	14985	ND1	HIS	2236	24.182	-23.163	51.018	1.00	20.57
ATOM	14986	CE1	HIS	2236	23.372	-24.178	51.258	1.00	20.23
ATOM	14987	NE2	HIS	2236	24.107	-25.260	51.454	1.00	19.86
ATOM	14988	C	HIS	2236	28.480	-24.420	50.667	1.00	19.78
ATOM	14989	O	HIS	2236	28.538	-24.463	49.438	1.00	18.95
ATOM	14990	N	LEU	2237	28.849	-25.427	51.455	1.00	21.72
ATOM	14991	CA	LEU	2237	29.375	-26.686	50.926	1.00	22.90
ATOM	14992	CB	LEU	2237	30.823	-26.880	51.383	1.00	21.03
ATOM	14993	CG	LEU	2237	31.850	-25.837	50.920	1.00	21.00
ATOM	14994	CD1	LEU	2237	33.206	-26.144	51.536	1.00	20.20
ATOM	14995	CD2	LEU	2237	31.942	-25.844	49.401	1.00	22.91
ATOM	14996	C	LEU	2237	28.542	-27.881	51.365	1.00	22.62
ATOM	14997	O	LEU	2237	27.701	-27.768	52.256	1.00	22.68
ATOM	14998	N	GLY	2238	28.793	-29.028	50.739	1.00	23.03
ATOM	14999	CA	GLY	2238	28.052	-30.235	51.061	1.00	22.71
ATOM	15000	C	GLY	2238	26.899	-30.398	50.096	1.00	24.92
ATOM	15001	O	GLY	2238	27.094	-30.367	48.880	1.00	24.62
ATOM	15002	N	LEU	2239	25.694	-30.565	50.631	1.00	25.75
ATOM	15003	CA	LEU	2239	24.506	-30.715	49.801	1.00	27.14
ATOM	15004	CB	LEU	2239	23.427	-31.485	50.573	1.00	27.64
ATOM	15005	CG	LEU	2239	22.208	-32.031	49.822	1.00	29.36
ATOM	15006	CD1	LEU	2239	21.373	-32.870	50.782	1.00	29.18
ATOM	15007	CD2	LEU	2239	21.380	-30.905	49.248	1.00	29.54
ATOM	15008	C	LEU	2239	23.996	-29.323	49.416	1.00	27.73
ATOM	15009	O	LEU	2239	23.270	-28.681	50.181	1.00	29.81
ATOM	15010	N	THR	2240	24.391	-28.866	48.231	1.00	24.58
ATOM	15011	CA	THR	2240	23.998	-27.559	47.714	1.00	24.57
ATOM	15012	CB	THR	2240	25.156	-26.932	46.894	1.00	25.13
ATOM	15013	OG1	THR	2240	25.600	-27.858	45.890	1.00	23.49
ATOM	15014	CG2	THR	2240	26.336	-26.607	47.810	1.00	26.36
ATOM	15015	C	THR	2240	22.751	-27.721	46.840	1.00	24.62
ATOM	15016	O	THR	2240	22.843	-28.055	45.661	1.00	23.83
ATOM	15017	N	PRO	2241	21.565	-27.473	47.420	1.00	24.68
ATOM	15018	CD	PRO	2241	21.400	-26.858	48.749	1.00	25.30
ATOM	15019	CA	PRO	2241	20.267	-27.592	46.741	1.00	24.86
ATOM	15020	CB	PRO	2241	19.283	-27.004	47.758	1.00	24.84
ATOM	15021	CG	PRO	2241	20.136	-26.080	48.575	1.00	27.84
ATOM	15022	C	PRO	2241	20.112	-27.002	45.337	1.00	24.57
ATOM	15023	O	PRO	2241	19.338	-27.530	44.534	1.00	24.58
ATOM	15024	N	GLN	2242	20.828	-25.924	45.026	1.00	22.22
ATOM	15025	CA	GLN	2242	20.737	-25.335	43.687	1.00	22.19
ATOM	15026	CB	GLN	2242	21.591	-24.064	43.599	1.00	21.42
ATOM	15027	CG	GLN	2242	20.849	-22.785	43.987	1.00	19.29
ATOM	15028	CD	GLN	2242	21.784	-21.601	44.191	1.00	20.80
ATOM	15029	OE1	GLN	2242	22.795	-21.460	43.498	1.00	18.83
ATOM	15030	NE2	GLN	2242	21.441	-20.736	45.140	1.00	17.73
ATOM	15031	C	GLN	2242	21.169	-26.331	42.602	1.00	21.96
ATOM	15032	O	GLN	2242	20.690	-26.261	41.470	1.00	20.71
ATOM	15033	N	SER	2243	22.057	-27.259	42.962	1.00	20.88
ATOM	15034	CA	SER	2243	22.553	-28.271	42.032	1.00	20.30
ATOM	15035	CB	SER	2243	24.043	-28.559	42.293	1.00	20.51
ATOM	15036	OG	SER	2243	24.851	-27.405	42.099	1.00	18.03
ATOM	15037	C	SER	2243	21.772	-29.587	42.140	1.00	20.10
ATOM	15038	O	SER	2243	22.281	-30.647	41.764	1.00	19.42
ATOM	15039	N	VAL	2244	20.538	-29.519	42.633	1.00	20.27
ATOM	15040	CA	VAL	2244	19.710	-30.712	42.806	1.00	19.69
ATOM	15041	CB	VAL	2244	18.285	-30.340	43.313	1.00	20.85
ATOM	15042	CG1	VAL	2244	17.525	-29.559	42.245	1.00	19.91
ATOM	15043	CG2	VAL	2244	17.525	-31.601	43.698	1.00	21.83

ATOM	15044	C	VAL	2244	19.581	-31.558	41.538	1.00	20.01
ATOM	15045	O	VAL	2244	19.484	-32.785	41.611	1.00	19.12
ATOM	15046	N	ASN	2245	19.582	-30.907	40.379	1.00	17.97
ATOM	15047	CA	ASN	2245	19.471	-31.626	39.118	1.00	19.30
ATOM	15048	CB	ASN	2245	19.110	-30.653	37.993	1.00	17.46
ATOM	15049	CG	ASN	2245	17.709	-30.102	38.146	1.00	19.80
ATOM	15050	OD1	ASN	2245	16.727	-30.850	38.058	1.00	16.40
ATOM	15051	ND2	ASN	2245	17.601	-28.796	38.386	1.00	18.40
ATOM	15052	C	ASN	2245	20.756	-32.367	38.787	1.00	19.89
ATOM	15053	O	ASN	2245	20.734	-33.401	38.114	1.00	20.19
ATOM	15054	N	ILE	2246	21.881	-31.835	39.254	1.00	20.52
ATOM	15055	CA	ILE	2246	23.172	-32.482	39.011	1.00	21.49
ATOM	15056	CB	ILE	2246	24.365	-31.581	39.411	1.00	20.68
ATOM	15057	CG2	ILE	2246	25.654	-32.401	39.365	1.00	21.13
ATOM	15058	CG1	ILE	2246	24.464	-30.365	38.472	1.00	20.19
ATOM	15059	CD1	ILE	2246	25.006	-30.675	37.085	1.00	18.99
ATOM	15060	C	ILE	2246	23.266	-33.759	39.847	1.00	22.01
ATOM	15061	O	ILE	2246	23.619	-34.821	39.333	1.00	21.51
ATOM	15062	N	PHE	2247	22.953	-33.647	41.136	1.00	22.01
ATOM	15063	CA	PHE	2247	23.028	-34.796	42.036	1.00	24.57
ATOM	15064	CB	PHE	2247	22.955	-34.351	43.498	1.00	27.03
ATOM	15065	CG	PHE	2247	23.907	-33.243	43.852	1.00	30.51
ATOM	15066	CD1	PHE	2247	25.256	-33.328	43.522	1.00	31.67
ATOM	15067	CD2	PHE	2247	23.449	-32.113	44.530	1.00	32.37
ATOM	15068	CE1	PHE	2247	26.139	-32.302	43.860	1.00	33.67
ATOM	15069	CE2	PHE	2247	24.320	-31.082	44.873	1.00	34.16
ATOM	15070	CZ	PHE	2247	25.667	-31.174	44.538	1.00	34.12
ATOM	15071	C	PHE	2247	21.915	-35.806	41.779	1.00	24.16
ATOM	15072	O	PHE	2247	22.042	-36.975	42.136	1.00	25.60
ATOM	15073	N	GLY	2248	20.828	-35.349	41.166	1.00	22.84
ATOM	15074	CA	GLY	2248	19.712	-36.233	40.893	1.00	23.98
ATOM	15075	C	GLY	2248	18.818	-36.384	42.107	1.00	25.53
ATOM	15076	O	GLY	2248	18.079	-37.362	42.238	1.00	25.77
ATOM	15077	N	GLY	2249	18.884	-35.405	43.002	1.00	26.74
ATOM	15078	CA	GLY	2249	18.081	-35.442	44.209	1.00	29.60
ATOM	15079	C	GLY	2249	18.844	-34.872	45.387	1.00	31.46
ATOM	15080	O	GLY	2249	19.994	-34.452	45.241	1.00	31.11
ATOM	15081	N	TYR	2250	18.207	-34.848	46.553	1.00	33.81
ATOM	15082	CA	TYR	2250	18.843	-34.330	47.758	1.00	36.66
ATOM	15083	CB	TYR	2250	17.819	-33.608	48.638	1.00	38.09
ATOM	15084	CG	TYR	2250	17.136	-32.453	47.945	1.00	40.93
ATOM	15085	CD1	TYR	2250	15.946	-32.640	47.243	1.00	41.37
ATOM	15086	CE1	TYR	2250	15.325	-31.580	46.584	1.00	43.82
ATOM	15087	CD2	TYR	2250	17.694	-31.174	47.970	1.00	41.83
ATOM	15088	CE2	TYR	2250	17.086	-30.108	47.314	1.00	43.92
ATOM	15089	CZ	TYR	2250	15.902	-30.317	46.624	1.00	43.98
ATOM	15090	OH	TYR	2250	15.303	-29.264	45.971	1.00	45.48
ATOM	15091	C	TYR	2250	19.484	-35.477	48.528	1.00	37.32
ATOM	15092	O	TYR	2250	18.859	-36.090	49.392	1.00	38.37
ATOM	15093	N	LYS	2251	20.741	-35.755	48.204	1.00	37.64
ATOM	15094	CA	LYS	2251	21.481	-36.839	48.830	1.00	37.41
ATOM	15095	CB	LYS	2251	22.013	-37.776	47.742	1.00	37.65
ATOM	15096	CG	LYS	2251	20.954	-38.168	46.711	1.00	37.38
ATOM	15097	CD	LYS	2251	21.580	-38.742	45.448	1.00	37.94
ATOM	15098	CE	LYS	2251	20.519	-39.094	44.415	1.00	37.48
ATOM	15099	NZ	LYS	2251	21.114	-39.517	43.119	1.00	33.97
ATOM	15100	C	LYS	2251	22.638	-36.287	49.659	1.00	37.97
ATOM	15101	O	LYS	2251	23.176	-35.221	49.358	1.00	36.96
ATOM	15102	N	VAL	2252	23.012	-37.018	50.706	1.00	37.82
ATOM	15103	CA	VAL	2252	24.106	-36.605	51.576	1.00	39.23
ATOM	15104	CB	VAL	2252	24.319	-37.621	52.717	1.00	38.53
ATOM	15105	CG1	VAL	2252	25.416	-37.137	53.651	1.00	39.17
ATOM	15106	CG2	VAL	2252	23.024	-37.821	53.479	1.00	39.33
ATOM	15107	C	VAL	2252	25.390	-36.497	50.759	1.00	39.59
ATOM	15108	O	VAL	2252	25.584	-37.240	49.798	1.00	39.94
ATOM	15109	N	GLN	2253	26.265	-35.574	51.144	1.00	40.19
ATOM	15110	CA	GLN	2253	27.520	-35.376	50.430	1.00	41.92
ATOM	15111	CB	GLN	2253	27.512	-34.008	49.743	1.00	42.02
ATOM	15112	CG	GLN	2253	28.197	-33.976	48.384	1.00	43.44
ATOM	15113	CD	GLN	2253	27.479	-34.825	47.349	1.00	42.91
ATOM	15114	OE1	GLN	2253	26.275	-34.672	47.128	1.00	43.91
ATOM	15115	NE2	GLN	2253	28.216	-35.723	46.704	1.00	44.45
ATOM	15116	C	GLN	2253	28.697	-35.469	51.398	1.00	42.35
ATOM	15117	O	GLN	2253	28.522	-35.358	52.610	1.00	42.17
ATOM	15118	N	GLY	2254	29.895	-35.677	50.862	1.00	43.70
ATOM	15119	CA	GLY	2254	31.069	-35.779	51.709	1.00	45.07
ATOM	15120	C	GLY	2254	31.432	-37.209	52.071	1.00	46.95

ATOM	15121	O	GLY	2254	32.521	-37.466	52.581	1.00	47.08
ATOM	15122	N	ARG	2255	30.517	-38.140	51.814	1.00	48.47
ATOM	15123	CA	ARG	2255	30.742	-39.552	52.105	1.00	49.93
ATOM	15124	CB	ARG	2255	29.517	-40.378	51.696	1.00	50.98
ATOM	15125	CG	ARG	2255	28.224	-40.026	52.424	1.00	51.85
ATOM	15126	CD	ARG	2255	28.282	-40.425	53.887	1.00	52.47
ATOM	15127	NE	ARG	2255	27.032	-40.148	54.596	1.00	53.65
ATOM	15128	CZ	ARG	2255	25.864	-40.724	54.322	1.00	52.93
ATOM	15129	NH1	ARG	2255	25.768	-41.618	53.349	1.00	52.83
ATOM	15130	NH2	ARG	2255	24.786	-40.409	55.027	1.00	53.44
ATOM	15131	C	ARG	2255	31.966	-40.058	51.342	1.00	50.92
ATOM	15132	O	ARG	2255	31.965	-40.097	50.111	1.00	50.96
ATOM	15133	N	GLY	2256	33.010	-40.444	52.070	1.00	51.41
ATOM	15134	CA	GLY	2256	34.211	-40.938	51.419	1.00	52.44
ATOM	15135	C	GLY	2256	35.428	-40.069	51.677	1.00	52.97
ATOM	15136	O	GLY	2256	35.313	-38.854	51.819	1.00	52.71
ATOM	15137	N	ASP	2257	36.599	-40.694	51.732	1.00	53.48
ATOM	15138	CA	ASP	2257	37.838	-39.969	51.982	1.00	53.79
ATOM	15139	CB	ASP	2257	39.023	-40.934	52.009	1.00	55.06
ATOM	15140	CG	ASP	2257	38.901	-41.970	53.105	1.00	56.30
ATOM	15141	OD1	ASP	2257	38.722	-41.576	54.277	1.00	56.85
ATOM	15142	OD2	ASP	2257	38.987	-43.177	52.797	1.00	58.02
ATOM	15143	C	ASP	2257	38.084	-38.893	50.935	1.00	53.11
ATOM	15144	O	ASP	2257	38.356	-37.741	51.269	1.00	53.00
ATOM	15145	N	GLU	2258	37.989	-39.273	49.666	1.00	52.48
ATOM	15146	CA	GLU	2258	38.213	-38.335	48.576	1.00	51.39
ATOM	15147	CB	GLU	2258	38.123	-39.062	47.234	1.00	53.26
ATOM	15148	CG	GLU	2258	38.351	-38.169	46.028	1.00	55.82
ATOM	15149	CD	GLU	2258	38.623	-38.959	44.762	1.00	57.62
ATOM	15150	OE1	GLU	2258	39.678	-39.629	44.695	1.00	58.68
ATOM	15151	OE2	GLU	2258	37.783	-38.913	43.837	1.00	58.41
ATOM	15152	C	GLU	2258	37.210	-37.188	48.620	1.00	49.36
ATOM	15153	O	GLU	2258	37.591	-36.020	48.567	1.00	48.74
ATOM	15154	N	ALA	2259	35.929	-37.527	48.721	1.00	47.48
ATOM	15155	CA	ALA	2259	34.877	-36.521	48.778	1.00	45.65
ATOM	15156	CB	ALA	2259	33.510	-37.191	48.747	1.00	45.32
ATOM	15157	C	ALA	2259	35.023	-35.688	50.046	1.00	43.78
ATOM	15158	O	ALA	2259	34.742	-34.491	50.047	1.00	43.87
ATOM	15159	N	GLY	2260	35.466	-36.330	51.121	1.00	42.56
ATOM	15160	CA	GLY	2260	35.644	-35.632	52.380	1.00	41.13
ATOM	15161	C	GLY	2260	36.794	-34.645	52.338	1.00	40.59
ATOM	15162	O	GLY	2260	36.680	-33.524	52.837	1.00	39.79
ATOM	15163	N	ASP	2261	37.909	-35.056	51.744	1.00	38.76
ATOM	15164	CA	ASP	2261	39.070	-34.182	51.647	1.00	38.24
ATOM	15165	CB	ASP	2261	40.291	-34.959	51.141	1.00	39.33
ATOM	15166	CG	ASP	2261	40.635	-36.142	52.025	1.00	40.38
ATOM	15167	OD1	ASP	2261	40.613	-35.990	53.267	1.00	39.92
ATOM	15168	OD2	ASP	2261	40.938	-37.224	51.477	1.00	42.70
ATOM	15169	C	ASP	2261	38.775	-33.022	50.707	1.00	36.18
ATOM	15170	O	ASP	2261	39.279	-31.915	50.899	1.00	35.73
ATOM	15171	N	GLN	2262	37.951	-33.279	49.695	1.00	35.55
ATOM	15172	CA	GLN	2262	37.588	-32.246	48.728	1.00	34.77
ATOM	15173	CB	GLN	2262	36.718	-32.844	47.617	1.00	35.12
ATOM	15174	CG	GLN	2262	36.351	-31.864	46.504	1.00	37.06
ATOM	15175	CD	GLN	2262	37.568	-31.284	45.803	1.00	38.05
ATOM	15176	OE1	GLN	2262	38.409	-32.019	45.281	1.00	39.24
ATOM	15177	NE2	GLN	2262	37.665	-29.960	45.782	1.00	38.19
ATOM	15178	C	GLN	2262	36.839	-31.112	49.422	1.00	33.47
ATOM	15179	O	GLN	2262	37.118	-29.939	49.177	1.00	33.28
ATOM	15180	N	LEU	2263	35.888	-31.469	50.284	1.00	32.83
ATOM	15181	CA	LEU	2263	35.105	-30.478	51.020	1.00	31.73
ATOM	15182	CB	LEU	2263	33.968	-31.153	51.796	1.00	32.63
ATOM	15183	CG	LEU	2263	32.813	-31.739	50.973	1.00	35.13
ATOM	15184	CD1	LEU	2263	31.733	-32.282	51.905	1.00	36.24
ATOM	15185	CD2	LEU	2263	32.230	-30.652	50.073	1.00	35.79
ATOM	15186	C	LEU	2263	35.993	-29.701	51.986	1.00	30.80
ATOM	15187	O	LEU	2263	35.874	-28.484	52.110	1.00	30.26
ATOM	15188	N	LEU	2264	36.883	-30.408	52.674	1.00	29.92
ATOM	15189	CA	LEU	2264	37.789	-29.762	53.613	1.00	28.33
ATOM	15190	CB	LEU	2264	38.704	-30.804	54.259	1.00	31.47
ATOM	15191	CG	LEU	2264	39.283	-30.483	55.639	1.00	33.11
ATOM	15192	CD1	LEU	2264	40.170	-31.648	56.068	1.00	32.67
ATOM	15193	CD2	LEU	2264	40.069	-29.188	55.623	1.00	33.38
ATOM	15194	C	LEU	2264	38.631	-28.742	52.855	1.00	26.63
ATOM	15195	O	LEU	2264	38.761	-27.594	53.275	1.00	26.53
ATOM	15196	N	SER	2265	39.198	-29.170	51.732	1.00	25.34
ATOM	15197	CA	SER	2265	40.029	-28.291	50.918	1.00	25.06

ATOM	15198	CB	SER	2265	40.546	-29.036	49.686	1.00	25.94
ATOM	15199	OG	SER	2265	41.362	-28.193	48.895	1.00	26.74
ATOM	15200	C	SER	2265	39.237	-27.067	50.475	1.00	24.21
ATOM	15201	O	SER	2265	39.740	-25.945	50.524	1.00	22.95
ATOM	15202	N	ASP	2266	37.998	-27.296	50.044	1.00	23.92
ATOM	15203	CA	ASP	2266	37.124	-26.215	49.594	1.00	24.88
ATOM	15204	CB	ASP	2266	35.805	-26.776	49.045	1.00	25.99
ATOM	15205	CG	ASP	2266	35.959	-27.401	47.671	1.00	29.42
ATOM	15206	OD1	ASP	2266	36.533	-26.744	46.775	1.00	31.95
ATOM	15207	OD2	ASP	2266	35.498	-28.545	47.478	1.00	34.49
ATOM	15208	C	ASP	2266	36.827	-25.231	50.724	1.00	22.16
ATOM	15209	O	ASP	2266	36.865	-24.013	50.529	1.00	22.29
ATOM	15210	N	ALA	2267	36.531	-25.767	51.902	1.00	22.20
ATOM	15211	CA	ALA	2267	36.237	-24.944	53.069	1.00	20.33
ATOM	15212	CB	ALA	2267	35.952	-25.836	54.280	1.00	19.05
ATOM	15213	C	ALA	2267	37.419	-24.021	53.354	1.00	20.70
ATOM	15214	O	ALA	2267	37.247	-22.817	53.546	1.00	18.09
ATOM	15215	N	LEU	2268	38.622	-24.584	53.378	1.00	19.57
ATOM	15216	CA	LEU	2268	39.812	-23.781	53.629	1.00	22.22
ATOM	15217	CB	LEU	2268	41.054	-24.671	53.712	1.00	22.33
ATOM	15218	CG	LEU	2268	41.220	-25.470	54.997	1.00	23.44
ATOM	15219	CD1	LEU	2268	42.400	-26.428	54.850	1.00	24.11
ATOM	15220	CD2	LEU	2268	41.430	-24.519	56.173	1.00	23.26
ATOM	15221	C	LEU	2268	40.016	-22.736	52.544	1.00	21.76
ATOM	15222	O	LEU	2268	40.387	-21.600	52.837	1.00	23.46
ATOM	15223	N	ALA	2269	39.772	-23.120	51.295	1.00	21.45
ATOM	15224	CA	ALA	2269	39.944	-22.204	50.174	1.00	22.17
ATOM	15225	CB	ALA	2269	39.709	-22.938	48.853	1.00	22.22
ATOM	15226	C	ALA	2269	39.000	-21.015	50.283	1.00	21.51
ATOM	15227	O	ALA	2269	39.399	-19.871	50.061	1.00	21.07
ATOM	15228	N	LEU	2270	37.745	-21.285	50.620	1.00	19.82
ATOM	15229	CA	LEU	2270	36.761	-20.215	50.753	1.00	21.19
ATOM	15230	CB	LEU	2270	35.377	-20.804	51.028	1.00	19.10
ATOM	15231	CG	LEU	2270	34.777	-21.647	49.897	1.00	20.93
ATOM	15232	CD1	LEU	2270	33.488	-22.306	50.382	1.00	20.19
ATOM	15233	CD2	LEU	2270	34.509	-20.763	48.682	1.00	20.41
ATOM	15234	C	LEU	2270	37.162	-19.269	51.882	1.00	20.84
ATOM	15235	O	LEU	2270	37.037	-18.050	51.761	1.00	21.29
ATOM	15236	N	GLU	2271	37.644	-19.834	52.982	1.00	22.99
ATOM	15237	CA	GLU	2271	38.072	-19.022	54.111	1.00	22.49
ATOM	15238	CB	GLU	2271	38.484	-19.919	55.277	1.00	23.48
ATOM	15239	CG	GLU	2271	39.110	-19.168	56.431	1.00	24.86
ATOM	15240	CD	GLU	2271	39.540	-20.086	57.555	1.00	27.13
ATOM	15241	OE1	GLU	2271	40.279	-21.059	57.280	1.00	26.64
ATOM	15242	OE2	GLU	2271	39.143	-19.831	58.710	1.00	25.55
ATOM	15243	C	GLU	2271	39.241	-18.132	53.704	1.00	22.11
ATOM	15244	O	GLU	2271	39.270	-16.943	54.018	1.00	22.92
ATOM	15245	N	ALA	2272	40.205	-18.703	52.992	1.00	23.39
ATOM	15246	CA	ALA	2272	41.370	-17.938	52.558	1.00	23.06
ATOM	15247	CB	ALA	2272	42.409	-18.878	51.946	1.00	23.50
ATOM	15248	C	ALA	2272	40.978	-16.855	51.557	1.00	23.55
ATOM	15249	O	ALA	2272	41.648	-15.826	51.455	1.00	23.19
ATOM	15250	N	ALA	2273	39.893	-17.091	50.821	1.00	23.38
ATOM	15251	CA	ALA	2273	39.413	-16.135	49.826	1.00	22.05
ATOM	15252	CB	ALA	2273	38.442	-16.824	48.864	1.00	21.44
ATOM	15253	C	ALA	2273	38.734	-14.935	50.481	1.00	21.79
ATOM	15254	O	ALA	2273	38.515	-13.908	49.839	1.00	21.90
ATOM	15255	N	GLY	2274	38.390	-15.066	51.758	1.00	21.57
ATOM	15256	CA	GLY	2274	37.747	-13.961	52.445	1.00	21.55
ATOM	15257	C	GLY	2274	36.399	-14.262	53.078	1.00	21.17
ATOM	15258	O	GLY	2274	35.818	-13.392	53.725	1.00	21.65
ATOM	15259	N	ALA	2275	35.885	-15.475	52.898	1.00	22.32
ATOM	15260	CA	ALA	2275	34.596	-15.831	53.489	1.00	20.83
ATOM	15261	CB	ALA	2275	34.218	-17.257	53.107	1.00	22.14
ATOM	15262	C	ALA	2275	34.673	-15.698	55.010	1.00	21.17
ATOM	15263	O	ALA	2275	35.616	-16.184	55.634	1.00	20.62
ATOM	15264	N	GLN	2276	33.684	-15.039	55.604	1.00	21.24
ATOM	15265	CA	GLN	2276	33.667	-14.850	57.051	1.00	21.02
ATOM	15266	CB	GLN	2276	33.293	-13.402	57.378	1.00	22.86
ATOM	15267	CG	GLN	2276	34.297	-12.396	56.843	1.00	24.47
ATOM	15268	CD	GLN	2276	33.899	-10.954	57.096	1.00	27.97
ATOM	15269	OE1	GLN	2276	34.022	-10.441	58.212	1.00	29.78
ATOM	15270	NE2	GLN	2276	33.418	-10.292	56.055	1.00	27.80
ATOM	15271	C	GLN	2276	32.721	-15.817	57.752	1.00	20.18
ATOM	15272	O	GLN	2276	32.606	-15.819	58.978	1.00	18.91
ATOM	15273	N	LEU	2277	32.048	-16.645	56.961	1.00	18.68
ATOM	15274	CA	LEU	2277	31.113	-17.638	57.480	1.00	19.05

ATOM	15275	CB	LEU	2277	29.735	-17.009	57.677	1.00	21.48
ATOM	15276	CG	LEU	2277	29.290	-16.728	59.113	1.00	23.83
ATOM	15277	CD1	LEU	2277	27.983	-15.939	59.098	1.00	24.53
ATOM	15278	CD2	LEU	2277	29.105	-18.040	59.848	1.00	26.07
ATOM	15279	C	LEU	2277	30.996	-18.787	56.485	1.00	18.50
ATOM	15280	O	LEU	2277	31.197	-18.591	55.291	1.00	19.06
ATOM	15281	N	LEU	2278	30.669	-19.978	56.978	1.00	19.37
ATOM	15282	CA	LEU	2278	30.511	-21.141	56.114	1.00	20.54
ATOM	15283	CB	LEU	2278	31.795	-21.980	56.080	1.00	21.74
ATOM	15284	CG	LEU	2278	31.702	-23.321	55.329	1.00	23.36
ATOM	15285	CD1	LEU	2278	31.185	-23.110	53.910	1.00	21.69
ATOM	15286	CD2	LEU	2278	33.070	-23.977	55.307	1.00	23.09
ATOM	15287	C	LEU	2278	29.367	-22.036	56.560	1.00	20.51
ATOM	15288	O	LEU	2278	29.232	-22.346	57.746	1.00	19.68
ATOM	15289	N	VAL	2279	28.541	-22.451	55.607	1.00	19.72
ATOM	15290	CA	VAL	2279	27.431	-23.340	55.909	1.00	20.12
ATOM	15291	CB	VAL	2279	26.098	-22.829	55.295	1.00	19.59
ATOM	15292	CG1	VAL	2279	25.043	-23.929	55.348	1.00	21.46
ATOM	15293	CG2	VAL	2279	25.599	-21.615	56.063	1.00	17.21
ATOM	15294	C	VAL	2279	27.725	-24.731	55.354	1.00	19.77
ATOM	15295	O	VAL	2279	28.143	-24.878	54.202	1.00	20.28
ATOM	15296	N	LEU	2280	27.527	-25.744	56.191	1.00	18.40
ATOM	15297	CA	LEU	2280	27.727	-27.133	55.787	1.00	19.76
ATOM	15298	CB	LEU	2280	28.710	-27.847	56.717	1.00	21.85
ATOM	15299	CG	LEU	2280	30.177	-27.418	56.656	1.00	24.85
ATOM	15300	CD1	LEU	2280	30.958	-28.145	57.743	1.00	25.93
ATOM	15301	CD2	LEU	2280	30.742	-27.745	55.278	1.00	25.21
ATOM	15302	C	LEU	2280	26.376	-27.812	55.895	1.00	19.77
ATOM	15303	O	LEU	2280	25.774	-27.842	56.968	1.00	20.23
ATOM	15304	N	GLU	2281	25.908	-28.364	54.783	1.00	20.33
ATOM	15305	CA	GLU	2281	24.615	-29.023	54.747	1.00	22.59
ATOM	15306	CB	GLU	2281	23.719	-28.328	53.713	1.00	24.29
ATOM	15307	CG	GLU	2281	22.401	-29.028	53.428	1.00	25.86
ATOM	15308	CD	GLU	2281	21.456	-28.177	52.592	1.00	28.07
ATOM	15309	OE1	GLU	2281	21.924	-27.208	51.960	1.00	27.88
ATOM	15310	OE2	GLU	2281	20.247	-28.486	52.555	1.00	30.09
ATOM	15311	C	GLU	2281	24.708	-30.513	54.437	1.00	23.66
ATOM	15312	O	GLU	2281	25.362	-30.918	53.476	1.00	24.09
ATOM	15313	N	CYS	2282	24.050	-31.316	55.271	1.00	24.83
ATOM	15314	CA	CYS	2282	24.006	-32.764	55.119	1.00	26.77
ATOM	15315	CB	CYS	2282	22.988	-33.136	54.048	1.00	27.38
ATOM	15316	SG	CYS	2282	21.317	-32.574	54.459	1.00	27.22
ATOM	15317	C	CYS	2282	25.354	-33.389	54.802	1.00	29.00
ATOM	15318	O	CYS	2282	25.623	-33.800	53.670	1.00	28.72
ATOM	15319	N	VAL	2283	26.193	-33.459	55.826	1.00	29.47
ATOM	15320	CA	VAL	2283	27.523	-34.025	55.702	1.00	32.15
ATOM	15321	CB	VAL	2283	28.579	-32.892	55.597	1.00	32.80
ATOM	15322	CG1	VAL	2283	28.491	-31.988	56.812	1.00	34.08
ATOM	15323	CG2	VAL	2283	29.967	-33.473	55.474	1.00	36.16
ATOM	15324	C	VAL	2283	27.785	-34.866	56.946	1.00	31.72
ATOM	15325	O	VAL	2283	27.325	-34.529	58.035	1.00	33.06
ATOM	15326	N	PRO	2284	28.510	-35.986	56.799	1.00	32.37
ATOM	15327	CD	PRO	2284	29.211	-36.504	55.614	1.00	31.82
ATOM	15328	CA	PRO	2284	28.787	-36.818	57.970	1.00	31.61
ATOM	15329	CB	PRO	2284	29.763	-37.866	57.430	1.00	31.74
ATOM	15330	CG	PRO	2284	30.393	-37.187	56.241	1.00	34.69
ATOM	15331	C	PRO	2284	29.367	-36.005	59.120	1.00	31.47
ATOM	15332	O	PRO	2284	30.239	-35.155	58.921	1.00	30.70
ATOM	15333	N	VAL	2285	28.865	-36.263	60.322	1.00	32.63
ATOM	15334	CA	VAL	2285	29.316	-35.561	61.514	1.00	33.69
ATOM	15335	CB	VAL	2285	28.795	-36.249	62.793	1.00	34.08
ATOM	15336	CG1	VAL	2285	29.136	-35.407	64.007	1.00	34.06
ATOM	15337	CG2	VAL	2285	27.296	-36.469	62.695	1.00	35.22
ATOM	15338	C	VAL	2285	30.835	-35.506	61.583	1.00	33.95
ATOM	15339	O	VAL	2285	31.407	-34.488	61.970	1.00	32.97
ATOM	15340	N	GLU	2286	31.479	-36.606	61.200	1.00	35.14
ATOM	15341	CA	GLU	2286	32.939	-36.702	61.225	1.00	36.30
ATOM	15342	CB	GLU	2286	33.393	-38.045	60.645	1.00	38.87
ATOM	15343	CG	GLU	2286	32.532	-39.236	61.031	1.00	43.96
ATOM	15344	CD	GLU	2286	32.222	-39.277	62.510	1.00	45.93
ATOM	15345	OE1	GLU	2286	33.165	-39.136	63.317	1.00	49.42
ATOM	15346	OE2	GLU	2286	31.037	-39.458	62.864	1.00	46.85
ATOM	15347	C	GLU	2286	33.570	-35.579	60.416	1.00	35.02
ATOM	15348	O	GLU	2286	34.452	-34.868	60.898	1.00	34.61
ATOM	15349	N	LEU	2287	33.116	-35.434	59.176	1.00	34.20
ATOM	15350	CA	LEU	2287	33.631	-34.406	58.284	1.00	33.45
ATOM	15351	CB	LEU	2287	32.973	-34.536	56.910	1.00	35.44



ATOM	15352	CG	LEU	2287	33.858	-34.344	55.677	1.00	36.84
ATOM	15353	CD1	LEU	2287	33.022	-34.555	54.424	1.00	36.74
ATOM	15354	CD2	LEU	2287	34.479	-32.965	55.682	1.00	38.47
ATOM	15355	C	LEU	2287	33.363	-33.021	58.869	1.00	32.89
ATOM	15356	O	LEU	2287	34.232	-32.148	58.842	1.00	31.87
ATOM	15357	N	ALA	2288	32.158	-32.826	59.401	1.00	32.19
ATOM	15358	CA	ALA	2288	31.779	-31.547	59.999	1.00	31.97
ATOM	15359	CB	ALA	2288	30.367	-31.630	60.571	1.00	31.39
ATOM	15360	C	ALA	2288	32.762	-31.163	61.100	1.00	31.77
ATOM	15361	O	ALA	2288	33.092	-29.990	61.272	1.00	28.78
ATOM	15362	N	LYS	2289	33.219	-32.168	61.842	1.00	32.20
ATOM	15363	CA	LYS	2289	34.171	-31.966	62.927	1.00	33.72
ATOM	15364	CB	LYS	2289	34.452	-33.293	63.632	1.00	36.63
ATOM	15365	CG	LYS	2289	33.229	-33.940	64.255	1.00	41.13
ATOM	15366	CD	LYS	2289	33.491	-35.400	64.616	1.00	42.87
ATOM	15367	CE	LYS	2289	32.259	-36.040	65.241	1.00	43.20
ATOM	15368	NZ	LYS	2289	32.389	-37.516	65.366	1.00	42.39
ATOM	15369	C	LYS	2289	35.476	-31.401	62.384	1.00	33.12
ATOM	15370	O	LYS	2289	35.966	-30.378	62.863	1.00	32.46
ATOM	15371	N	ARG	2290	36.036	-32.079	61.385	1.00	33.84
ATOM	15372	CA	ARG	2290	37.288	-31.651	60.771	1.00	34.39
ATOM	15373	CB	ARG	2290	37.674	-32.589	59.624	1.00	36.92
ATOM	15374	CG	ARG	2290	38.244	-33.922	60.066	1.00	39.76
ATOM	15375	CD	ARG	2290	38.859	-34.667	58.888	1.00	41.62
ATOM	15376	NE	ARG	2290	37.866	-35.347	58.065	1.00	44.41
ATOM	15377	CZ	ARG	2290	38.110	-35.840	56.853	1.00	45.62
ATOM	15378	NH1	ARG	2290	39.319	-35.722	56.320	1.00	45.39
ATOM	15379	NH2	ARG	2290	37.149	-36.460	56.176	1.00	46.26
ATOM	15380	C	ARG	2290	37.206	-30.224	60.246	1.00	33.61
ATOM	15381	O	ARG	2290	38.051	-29.386	60.567	1.00	33.99
ATOM	15382	N	ILE	2291	36.189	-29.956	59.432	1.00	32.56
ATOM	15383	CA	ILE	2291	35.996	-28.629	58.858	1.00	30.31
ATOM	15384	CB	ILE	2291	34.739	-28.599	57.950	1.00	31.03
ATOM	15385	CG2	ILE	2291	34.514	-27.192	57.410	1.00	30.84
ATOM	15386	CG1	ILE	2291	34.914	-29.589	56.792	1.00	32.84
ATOM	15387	CD1	ILE	2291	33.694	-29.725	55.888	1.00	32.14
ATOM	15388	C	ILE	2291	35.860	-27.568	59.951	1.00	29.40
ATOM	15389	O	ILE	2291	36.503	-26.519	59.891	1.00	26.63
ATOM	15390	N	THR	2292	35.035	-27.849	60.956	1.00	27.90
ATOM	15391	CA	THR	2292	34.819	-26.904	62.051	1.00	28.75
ATOM	15392	CB	THR	2292	33.718	-27.406	63.010	1.00	28.08
ATOM	15393	OG1	THR	2292	32.489	-27.550	62.286	1.00	27.32
ATOM	15394	CG2	THR	2292	33.507	-26.418	64.147	1.00	27.19
ATOM	15395	C	THR	2292	36.086	-26.630	62.860	1.00	29.42
ATOM	15396	O	THR	2292	36.319	-25.501	63.298	1.00	28.54
ATOM	15397	N	GLU	2293	36.900	-27.663	63.052	1.00	30.75
ATOM	15398	CA	GLU	2293	38.138	-27.529	63.811	1.00	32.20
ATOM	15399	CB	GLU	2293	38.578	-28.894	64.348	1.00	35.28
ATOM	15400	CG	GLU	2293	37.547	-29.570	65.239	1.00	39.73
ATOM	15401	CD	GLU	2293	37.976	-30.958	65.686	1.00	42.81
ATOM	15402	OE1	GLU	2293	38.390	-31.763	64.822	1.00	44.94
ATOM	15403	OE2	GLU	2293	37.889	-31.250	66.899	1.00	44.47
ATOM	15404	C	GLU	2293	39.252	-26.929	62.963	1.00	30.90
ATOM	15405	O	GLU	2293	40.175	-26.306	63.487	1.00	31.84
ATOM	15406	N	ALA	2294	39.159	-27.102	61.649	1.00	30.60
ATOM	15407	CA	ALA	2294	40.180	-26.581	60.744	1.00	29.10
ATOM	15408	CB	ALA	2294	40.190	-27.394	59.456	1.00	29.45
ATOM	15409	C	ALA	2294	40.015	-25.099	60.417	1.00	28.58
ATOM	15410	O	ALA	2294	40.996	-24.404	60.150	1.00	27.98
ATOM	15411	N	LEU	2295	38.776	-24.620	60.432	1.00	26.57
ATOM	15412	CA	LEU	2295	38.501	-23.225	60.111	1.00	26.11
ATOM	15413	CB	LEU	2295	37.178	-23.108	59.348	1.00	26.01
ATOM	15414	CG	LEU	2295	37.097	-23.794	57.987	1.00	27.63
ATOM	15415	CD1	LEU	2295	35.761	-23.461	57.323	1.00	26.37
ATOM	15416	CD2	LEU	2295	38.242	-23.349	57.117	1.00	28.50
ATOM	15417	C	LEU	2295	38.449	-22.310	61.323	1.00	24.44
ATOM	15418	O	LEU	2295	37.961	-22.692	62.385	1.00	25.12
ATOM	15419	N	ALA	2296	38.953	-21.094	61.148	1.00	23.89
ATOM	15420	CA	ALA	2296	38.944	-20.102	62.212	1.00	23.70
ATOM	15421	CB	ALA	2296	40.053	-19.086	61.995	1.00	25.57
ATOM	15422	C	ALA	2296	37.591	-19.402	62.200	1.00	24.70
ATOM	15423	O	ALA	2296	37.079	-19.000	63.244	1.00	22.57
ATOM	15424	N	ILE	2297	37.015	-19.253	61.009	1.00	23.45
ATOM	15425	CA	ILE	2297	35.715	-18.601	60.877	1.00	23.32
ATOM	15426	CB	ILE	2297	35.407	-18.223	59.419	1.00	22.51
ATOM	15427	CG2	ILE	2297	36.401	-17.190	58.928	1.00	23.31
ATOM	15428	CG1	ILE	2297	35.410	-19.481	58.548	1.00	22.06

ATOM	15429	CD1	ILE	2297	34.938	-19.252	57.130	1.00	23.01
ATOM	15430	C	ILE	2297	34.625	-19.553	61.354	1.00	21.65
ATOM	15431	O	ILE	2297	34.782	-20.768	61.288	1.00	22.46
ATOM	15432	N	PRO	2298	33.499	-19.009	61.836	1.00	22.06
ATOM	15433	CD	PRO	2298	33.188	-17.587	62.064	1.00	22.11
ATOM	15434	CA	PRO	2298	32.417	-19.873	62.312	1.00	20.85
ATOM	15435	CB	PRO	2298	31.437	-18.884	62.942	1.00	21.35
ATOM	15436	CG	PRO	2298	31.698	-17.610	62.208	1.00	24.05
ATOM	15437	C	PRO	2298	31.793	-20.728	61.213	1.00	22.19
ATOM	15438	O	PRO	2298	31.678	-20.304	60.062	1.00	20.87
ATOM	15439	N	VAL	2299	31.416	-21.945	61.585	1.00	20.48
ATOM	15440	CA	VAL	2299	30.802	-22.899	60.669	1.00	21.54
ATOM	15441	CB	VAL	2299	31.628	-24.208	60.616	1.00	21.85
ATOM	15442	CG1	VAL	2299	30.961	-25.227	59.704	1.00	19.09
ATOM	15443	CG2	VAL	2299	33.035	-23.901	60.144	1.00	21.05
ATOM	15444	C	VAL	2299	29.385	-23.234	61.123	1.00	22.17
ATOM	15445	O	VAL	2299	29.189	-23.842	62.182	1.00	23.34
ATOM	15446	N	ILE	2300	28.402	-22.837	60.322	1.00	19.12
ATOM	15447	CA	ILE	2300	27.001	-23.099	60.641	1.00	18.65
ATOM	15448	CB	ILE	2300	26.087	-21.953	60.142	1.00	20.40
ATOM	15449	CG2	ILE	2300	24.633	-22.310	60.397	1.00	19.06
ATOM	15450	CG1	ILE	2300	26.480	-20.641	60.826	1.00	22.26
ATOM	15451	CD1	ILE	2300	25.706	-19.424	60.334	1.00	22.74
ATOM	15452	C	ILE	2300	26.566	-24.387	59.966	1.00	18.15
ATOM	15453	O	ILE	2300	26.727	-24.548	58.755	1.00	18.55
ATOM	15454	N	GLY	2301	26.007	-25.305	60.741	1.00	16.44
ATOM	15455	CA	GLY	2301	25.581	-26.564	60.168	1.00	17.23
ATOM	15456	C	GLY	2301	24.086	-26.811	60.070	1.00	20.10
ATOM	15457	O	GLY	2301	23.282	-26.228	60.800	1.00	17.24
ATOM	15458	N	ILE	2302	23.727	-27.683	59.134	1.00	21.06
ATOM	15459	CA	ILE	2302	22.348	-28.094	58.899	1.00	23.05
ATOM	15460	CB	ILE	2302	21.621	-27.163	57.872	1.00	26.00
ATOM	15461	CG2	ILE	2302	22.500	-26.896	56.653	1.00	27.12
ATOM	15462	CG1	ILE	2302	20.295	-27.790	57.452	1.00	27.76
ATOM	15463	CD1	ILE	2302	19.321	-27.937	58.577	1.00	31.67
ATOM	15464	C	ILE	2302	22.458	-29.517	58.358	1.00	23.20
ATOM	15465	O	ILE	2302	22.847	-29.730	57.211	1.00	23.36
ATOM	15466	N	GLY	2303	22.136	-30.493	59.200	1.00	24.09
ATOM	15467	CA	GLY	2303	22.254	-31.882	58.791	1.00	24.67
ATOM	15468	C	GLY	2303	23.715	-32.308	58.862	1.00	26.55
ATOM	15469	O	GLY	2303	24.149	-33.218	58.152	1.00	25.82
ATOM	15470	N	ALA	2304	24.472	-31.640	59.731	1.00	26.01
ATOM	15471	CA	ALA	2304	25.895	-31.923	59.910	1.00	26.83
ATOM	15472	CB	ALA	2304	26.721	-30.726	59.447	1.00	26.51
ATOM	15473	C	ALA	2304	26.247	-32.261	61.357	1.00	27.49
ATOM	15474	O	ALA	2304	27.424	-32.321	61.721	1.00	27.78
ATOM	15475	N	GLY	2305	25.227	-32.470	62.184	1.00	29.32
ATOM	15476	CA	GLY	2305	25.465	-32.796	63.580	1.00	29.51
ATOM	15477	C	GLY	2305	25.569	-31.564	64.459	1.00	29.45
ATOM	15478	O	GLY	2305	25.325	-30.447	63.998	1.00	29.69
ATOM	15479	N	ASN	2306	25.934	-31.766	65.725	1.00	27.86
ATOM	15480	CA	ASN	2306	26.062	-30.663	66.672	1.00	27.30
ATOM	15481	CB	ASN	2306	25.404	-31.029	68.014	1.00	26.47
ATOM	15482	CG	ASN	2306	26.124	-32.165	68.750	1.00	29.23
ATOM	15483	OD1	ASN	2306	25.801	-32.469	69.902	1.00	30.22
ATOM	15484	ND2	ASN	2306	27.090	-32.791	68.093	1.00	24.10
ATOM	15485	C	ASN	2306	27.508	-30.240	66.915	1.00	27.30
ATOM	15486	O	ASN	2306	27.801	-29.558	67.896	1.00	26.84
ATOM	15487	N	VAL	2307	28.406	-30.632	66.014	1.00	27.99
ATOM	15488	CA	VAL	2307	29.822	-30.302	66.150	1.00	27.99
ATOM	15489	CB	VAL	2307	30.706	-31.377	65.491	1.00	29.98
ATOM	15490	CG1	VAL	2307	32.168	-31.134	65.843	1.00	32.46
ATOM	15491	CG2	VAL	2307	30.272	-32.762	65.947	1.00	29.99
ATOM	15492	C	VAL	2307	30.168	-28.950	65.533	1.00	26.89
ATOM	15493	O	VAL	2307	31.257	-28.414	65.756	1.00	25.00
ATOM	15494	N	THR	2308	29.241	-28.402	64.753	1.00	25.39
ATOM	15495	CA	THR	2308	29.465	-27.113	64.116	1.00	24.44
ATOM	15496	CB	THR	2308	28.486	-26.890	62.930	1.00	24.99
ATOM	15497	OG1	THR	2308	27.134	-27.038	63.384	1.00	23.48
ATOM	15498	CG2	THR	2308	28.758	-27.897	61.815	1.00	23.59
ATOM	15499	C	THR	2308	29.293	-25.990	65.132	1.00	23.65
ATOM	15500	O	THR	2308	28.656	-26.169	66.167	1.00	25.62
ATOM	15501	N	ASP	2309	29.871	-24.834	64.834	1.00	23.25
ATOM	15502	CA	ASP	2309	29.785	-23.684	65.726	1.00	22.71
ATOM	15503	CB	ASP	2309	30.642	-22.546	65.189	1.00	22.91
ATOM	15504	CG	ASP	2309	32.098	-22.940	65.042	1.00	25.32
ATOM	15505	OD1	ASP	2309	32.722	-23.288	66.070	1.00	21.88

ATOM	15506	OD2	ASP	2309	32.609	-22.900	63.904	1.00	22.96
ATOM	15507	C	ASP	2309	28.351	-23.206	65.883	1.00	22.86
ATOM	15508	O	ASP	2309	27.937	-22.793	66.966	1.00	23.77
ATOM	15509	N	GLY	2310	27.592	-23.257	64.798	1.00	22.07
ATOM	15510	CA	GLY	2310	26.209	-22.814	64.857	1.00	21.62
ATOM	15511	C	GLY	2310	25.283	-23.769	64.136	1.00	20.15
ATOM	15512	O	GLY	2310	25.731	-24.742	63.533	1.00	19.40
ATOM	15513	N	GLN	2311	23.986	-23.487	64.190	1.00	21.21
ATOM	15514	CA	GLN	2311	22.990	-24.332	63.541	1.00	19.77
ATOM	15515	CB	GLN	2311	22.204	-25.118	64.592	1.00	20.52
ATOM	15516	CG	GLN	2311	23.001	-26.179	65.329	1.00	22.52
ATOM	15517	CD	GLN	2311	23.541	-27.243	64.390	1.00	21.75
ATOM	15518	OE1	GLN	2311	22.848	-27.687	63.474	1.00	21.80
ATOM	15519	NE2	GLN	2311	24.780	-27.666	64.623	1.00	21.19
ATOM	15520	C	GLN	2311	22.009	-23.485	62.736	1.00	20.67
ATOM	15521	O	GLN	2311	21.772	-22.328	63.071	1.00	17.41
ATOM	15522	N	ILE	2312	21.447	-24.060	61.676	1.00	22.09
ATOM	15523	CA	ILE	2312	20.467	-23.343	60.872	1.00	24.89
ATOM	15524	CB	ILE	2312	21.110	-22.706	59.606	1.00	25.72
ATOM	15525	CG2	ILE	2312	21.564	-23.786	58.635	1.00	26.02
ATOM	15526	CG1	ILE	2312	20.100	-21.773	58.932	1.00	27.58
ATOM	15527	CD1	ILE	2312	20.741	-20.666	58.103	1.00	29.83
ATOM	15528	C	ILE	2312	19.342	-24.292	60.477	1.00	27.16
ATOM	15529	O	ILE	2312	19.570	-25.481	60.251	1.00	28.46
ATOM	15530	N	LEU	2313	18.120	-23.774	60.419	1.00	27.96
ATOM	15531	CA	LEU	2313	16.981	-24.604	60.058	1.00	29.89
ATOM	15532	CB	LEU	2313	16.438	-25.308	61.299	1.00	32.34
ATOM	15533	CG	LEU	2313	16.079	-26.791	61.172	1.00	36.07
ATOM	15534	CD1	LEU	2313	15.437	-27.236	62.479	1.00	36.26
ATOM	15535	CD2	LEU	2313	15.130	-27.027	60.000	1.00	35.23
ATOM	15536	C	LEU	2313	15.877	-23.765	59.434	1.00	29.08
ATOM	15537	O	LEU	2313	15.752	-22.578	59.735	1.00	26.94
ATOM	15538	N	VAL	2314	15.088	-24.386	58.558	1.00	28.13
ATOM	15539	CA	VAL	2314	13.984	-23.699	57.902	1.00	26.96
ATOM	15540	CB	VAL	2314	13.493	-24.457	56.647	1.00	28.27
ATOM	15541	CG1	VAL	2314	12.350	-23.692	55.999	1.00	28.30
ATOM	15542	CG2	VAL	2314	14.638	-24.638	55.666	1.00	28.58
ATOM	15543	C	VAL	2314	12.837	-23.628	58.899	1.00	25.72
ATOM	15544	O	VAL	2314	12.331	-24.654	59.350	1.00	25.30
ATOM	15545	N	MET	2315	12.444	-22.411	59.249	1.00	25.28
ATOM	15546	CA	MET	2315	11.367	-22.196	60.205	1.00	22.98
ATOM	15547	CB	MET	2315	11.025	-20.711	60.278	1.00	20.69
ATOM	15548	CG	MET	2315	10.539	-20.145	58.960	1.00	20.27
ATOM	15549	SD	MET	2315	9.305	-18.854	59.197	1.00	19.44
ATOM	15550	CE	MET	2315	7.864	-19.873	59.416	1.00	17.93
ATOM	15551	C	MET	2315	10.103	-22.996	59.876	1.00	22.84
ATOM	15552	O	MET	2315	9.407	-23.463	60.776	1.00	24.09
ATOM	15553	N	HIS	2316	9.807	-23.162	58.591	1.00	23.24
ATOM	15554	CA	HIS	2316	8.616	-23.903	58.180	1.00	22.87
ATOM	15555	CB	HIS	2316	8.445	-23.796	56.662	1.00	21.29
ATOM	15556	CG	HIS	2316	7.970	-22.449	56.216	1.00	20.22
ATOM	15557	CD2	HIS	2316	8.651	-21.318	55.913	1.00	17.37
ATOM	15558	ND1	HIS	2316	6.633	-22.120	56.152	1.00	20.75
ATOM	15559	CE1	HIS	2316	6.511	-20.844	55.833	1.00	20.50
ATOM	15560	NE2	HIS	2316	7.721	-20.333	55.684	1.00	20.64
ATOM	15561	C	HIS	2316	8.612	-25.360	58.634	1.00	24.41
ATOM	15562	O	HIS	2316	7.551	-25.965	58.787	1.00	23.54
ATOM	15563	N	ASP	2317	9.790	-25.936	58.845	1.00	25.53
ATOM	15564	CA	ASP	2317	9.850	-27.313	59.330	1.00	27.90
ATOM	15565	CB	ASP	2317	11.101	-28.029	58.813	1.00	31.10
ATOM	15566	CG	ASP	2317	10.984	-28.436	57.358	1.00	32.92
ATOM	15567	OD1	ASP	2317	9.936	-29.002	56.979	1.00	36.68
ATOM	15568	OD2	ASP	2317	11.944	-28.205	56.598	1.00	35.40
ATOM	15569	C	ASP	2317	9.874	-27.291	60.857	1.00	27.46
ATOM	15570	O	ASP	2317	9.268	-28.140	61.512	1.00	28.41
ATOM	15571	N	ALA	2318	10.571	-26.304	61.410	1.00	28.19
ATOM	15572	CA	ALA	2318	10.703	-26.154	62.853	1.00	29.17
ATOM	15573	CB	ALA	2318	11.566	-24.946	63.167	1.00	31.06
ATOM	15574	C	ALA	2318	9.357	-26.025	63.553	1.00	30.52
ATOM	15575	O	ALA	2318	9.230	-26.371	64.727	1.00	30.59
ATOM	15576	N	PHE	2319	8.355	-25.526	62.834	1.00	29.73
ATOM	15577	CA	PHE	2319	7.029	-25.357	63.416	1.00	29.63
ATOM	15578	CB	PHE	2319	6.545	-23.917	63.234	1.00	29.46
ATOM	15579	CG	PHE	2319	7.529	-22.886	63.711	1.00	31.82
ATOM	15580	CD1	PHE	2319	8.150	-23.020	64.950	1.00	32.14
ATOM	15581	CD2	PHE	2319	7.827	-21.778	62.928	1.00	32.09
ATOM	15582	CE1	PHE	2319	9.056	-22.067	65.398	1.00	32.92

ATOM	15583	CE2	PHE	2319	8.731	-20.818	63.366	1.00	32.42
ATOM	15584	CZ	PHE	2319	9.347	-20.963	64.606	1.00	33.77
ATOM	15585	C	PHE	2319	6.017	-26.318	62.818	1.00	28.48
ATOM	15586	O	PHE	2319	4.811	-26.115	62.941	1.00	29.39
ATOM	15587	N	GLY	2320	6.515	-27.368	62.175	1.00	30.40
ATOM	15588	CA	GLY	2320	5.639	-28.357	61.573	1.00	29.32
ATOM	15589	C	GLY	2320	4.618	-27.800	60.597	1.00	28.92
ATOM	15590	O	GLY	2320	3.574	-28.410	60.380	1.00	28.53
ATOM	15591	N	ILE	2321	4.915	-26.647	60.003	1.00	28.40
ATOM	15592	CA	ILE	2321	4.001	-26.029	59.047	1.00	28.56
ATOM	15593	CB	ILE	2321	4.425	-24.573	58.729	1.00	26.93
ATOM	15594	CG2	ILE	2321	3.532	-23.991	57.646	1.00	28.95
ATOM	15595	CG1	ILE	2321	4.342	-23.721	60.001	1.00	27.13
ATOM	15596	CD1	ILE	2321	4.875	-22.326	59.854	1.00	23.13
ATOM	15597	C	ILE	2321	3.946	-26.823	57.746	1.00	30.05
ATOM	15598	O	ILE	2321	2.876	-27.052	57.190	1.00	28.53
ATOM	15599	N	THR	2322	5.106	-27.249	57.264	1.00	32.75
ATOM	15600	CA	THR	2322	5.163	-28.000	56.021	1.00	37.43
ATOM	15601	CB	THR	2322	6.567	-27.946	55.417	1.00	38.04
ATOM	15602	OG1	THR	2322	7.450	-28.764	56.190	1.00	41.53
ATOM	15603	CG2	THR	2322	7.084	-26.520	55.431	1.00	36.66
ATOM	15604	C	THR	2322	4.775	-29.454	56.242	1.00	40.21
ATOM	15605	O	THR	2322	5.297	-30.112	57.143	1.00	40.84
ATOM	15606	N	GLY	2323	3.853	-29.942	55.415	1.00	43.61
ATOM	15607	CA	GLY	2323	3.395	-31.320	55.509	1.00	48.35
ATOM	15608	C	GLY	2323	3.586	-31.967	56.868	1.00	51.33
ATOM	15609	O	GLY	2323	3.286	-31.368	57.903	1.00	51.84
ATOM	15610	N	GLY	2324	4.090	-33.196	56.867	1.00	53.18
ATOM	15611	CA	GLY	2324	4.309	-33.900	58.116	1.00	54.96
ATOM	15612	C	GLY	2324	5.535	-34.783	58.065	1.00	56.02
ATOM	15613	O	GLY	2324	5.938	-35.358	59.076	1.00	57.03
ATOM	15614	N	HIS	2325	6.132	-34.889	56.884	1.00	56.32
ATOM	15615	CA	HIS	2325	7.322	-35.710	56.701	1.00	56.49
ATOM	15616	CB	HIS	2325	7.148	-36.604	55.475	1.00	58.75
ATOM	15617	CG	HIS	2325	5.979	-37.532	55.571	1.00	61.46
ATOM	15618	CD2	HIS	2325	4.882	-37.670	54.788	1.00	62.32
ATOM	15619	ND1	HIS	2325	5.852	-38.467	56.576	1.00	62.35
ATOM	15620	CE1	HIS	2325	4.728	-39.141	56.408	1.00	63.14
ATOM	15621	NE2	HIS	2325	4.121	-38.677	55.330	1.00	63.31
ATOM	15622	C	HIS	2325	8.572	-34.852	56.543	1.00	55.31
ATOM	15623	O	HIS	2325	9.174	-34.805	55.470	1.00	55.03
ATOM	15624	N	ILE	2326	8.959	-34.177	57.622	1.00	53.27
ATOM	15625	CA	ILE	2326	10.137	-33.318	57.608	1.00	50.77
ATOM	15626	CB	ILE	2326	10.230	-32.483	58.898	1.00	50.89
ATOM	15627	CG2	ILE	2326	8.991	-31.612	59.043	1.00	50.89
ATOM	15628	CG1	ILE	2326	10.380	-33.408	60.107	1.00	51.06
ATOM	15629	CD1	ILE	2326	10.620	-32.672	61.410	1.00	50.63
ATOM	15630	C	ILE	2326	11.408	-34.151	57.473	1.00	48.48
ATOM	15631	O	ILE	2326	11.400	-35.356	57.722	1.00	48.12
ATOM	15632	N	PRO	2327	12.523	-33.517	57.076	1.00	46.61
ATOM	15633	CD	PRO	2327	12.695	-32.092	56.746	1.00	46.53
ATOM	15634	CA	PRO	2327	13.785	-34.247	56.923	1.00	45.07
ATOM	15635	CB	PRO	2327	14.710	-33.205	56.296	1.00	45.91
ATOM	15636	CG	PRO	2327	14.194	-31.918	56.854	1.00	46.83
ATOM	15637	C	PRO	2327	14.317	-34.796	58.245	1.00	43.14
ATOM	15638	O	PRO	2327	13.982	-34.292	59.318	1.00	42.61
ATOM	15639	N	LYS	2328	15.144	-35.833	58.163	1.00	41.21
ATOM	15640	CA	LYS	2328	15.716	-36.455	59.354	1.00	38.78
ATOM	15641	CB	LYS	2328	16.536	-37.692	58.967	1.00	41.48
ATOM	15642	CG	LYS	2328	15.696	-38.917	58.617	1.00	45.03
ATOM	15643	CD	LYS	2328	14.760	-38.644	57.447	1.00	47.19
ATOM	15644	CE	LYS	2328	13.770	-39.779	57.245	1.00	48.48
ATOM	15645	NZ	LYS	2328	12.793	-39.463	56.165	1.00	49.27
ATOM	15646	C	LYS	2328	16.583	-35.513	60.181	1.00	35.61
ATOM	15647	O	LYS	2328	16.774	-35.732	61.376	1.00	34.87
ATOM	15648	N	PHE	2329	17.102	-34.463	59.553	1.00	31.28
ATOM	15649	CA	PHE	2329	17.955	-33.514	60.262	1.00	28.57
ATOM	15650	CB	PHE	2329	19.028	-32.967	59.315	1.00	28.07
ATOM	15651	CG	PHE	2329	18.480	-32.290	58.089	1.00	29.05
ATOM	15652	CD1	PHE	2329	17.954	-31.004	58.157	1.00	28.21
ATOM	15653	CD2	PHE	2329	18.506	-32.935	56.857	1.00	29.00
ATOM	15654	CE1	PHE	2329	17.470	-30.367	57.011	1.00	28.14
ATOM	15655	CE2	PHE	2329	18.026	-32.309	55.708	1.00	28.09
ATOM	15656	CZ	PHE	2329	17.506	-31.023	55.785	1.00	29.29
ATOM	15657	C	PHE	2329	17.179	-32.365	60.896	1.00	26.22
ATOM	15658	O	PHE	2329	17.734	-31.568	61.649	1.00	24.18
ATOM	15659	N	ALA	2330	15.888	-32.288	60.597	1.00	26.36

ATOM	15660	CA	ALA	2330	15.051	-31.225	61.133	1.00	25.12
ATOM	15661	CB	ALA	2330	14.109	-30.721	60.048	1.00	24.79
ATOM	15662	C	ALA	2330	14.250	-31.701	62.336	1.00	25.45
ATOM	15663	O	ALA	2330	14.066	-32.900	62.540	1.00	26.65
ATOM	15664	N	LYS	2331	13.761	-30.751	63.123	1.00	25.57
ATOM	15665	CA	LYS	2331	12.966	-31.068	64.299	1.00	25.38
ATOM	15666	CB	LYS	2331	13.861	-31.093	65.541	1.00	26.54
ATOM	15667	CG	LYS	2331	13.128	-31.323	66.853	1.00	27.14
ATOM	15668	CD	LYS	2331	14.114	-31.421	68.013	1.00	27.67
ATOM	15669	CE	LYS	2331	13.404	-31.585	69.352	1.00	28.98
ATOM	15670	NZ	LYS	2331	14.389	-31.782	70.465	1.00	25.48
ATOM	15671	C	LYS	2331	11.845	-30.051	64.486	1.00	24.96
ATOM	15672	O	LYS	2331	12.060	-28.842	64.371	1.00	23.50
ATOM	15673	N	ASN	2332	10.647	-30.553	64.758	1.00	24.26
ATOM	15674	CA	ASN	2332	9.488	-29.697	64.981	1.00	23.93
ATOM	15675	CB	ASN	2332	8.197	-30.456	64.641	1.00	23.26
ATOM	15676	CG	ASN	2332	6.941	-29.655	64.953	1.00	22.69
ATOM	15677	OD1	ASN	2332	7.009	-28.540	65.474	1.00	23.56
ATOM	15678	ND2	ASN	2332	5.788	-30.226	64.641	1.00	23.07
ATOM	15679	C	ASN	2332	9.469	-29.286	66.446	1.00	23.54
ATOM	15680	O	ASN	2332	9.098	-30.076	67.311	1.00	25.07
ATOM	15681	N	PHE	2333	9.874	-28.054	66.728	1.00	25.71
ATOM	15682	CA	PHE	2333	9.894	-27.567	68.103	1.00	26.02
ATOM	15683	CB	PHE	2333	10.884	-26.411	68.245	1.00	27.67
ATOM	15684	CG	PHE	2333	12.317	-26.826	68.102	1.00	25.56
ATOM	15685	CD1	PHE	2333	12.885	-26.981	66.846	1.00	24.93
ATOM	15686	CD2	PHE	2333	13.091	-27.086	69.224	1.00	25.58
ATOM	15687	CE1	PHE	2333	14.210	-27.392	66.706	1.00	25.54
ATOM	15688	CE2	PHE	2333	14.416	-27.498	69.098	1.00	27.73
ATOM	15689	CZ	PHE	2333	14.972	-27.649	67.836	1.00	24.35
ATOM	15690	C	PHE	2333	8.529	-27.126	68.606	1.00	28.07
ATOM	15691	O	PHE	2333	8.295	-27.112	69.812	1.00	26.50
ATOM	15692	N	LEU	2334	7.633	-26.759	67.693	1.00	28.99
ATOM	15693	CA	LEU	2334	6.296	-26.330	68.095	1.00	30.49
ATOM	15694	CB	LEU	2334	5.497	-25.820	66.889	1.00	28.12
ATOM	15695	CG	LEU	2334	4.023	-25.483	67.170	1.00	27.45
ATOM	15696	CD1	LEU	2334	3.933	-24.502	68.323	1.00	24.55
ATOM	15697	CD2	LEU	2334	3.363	-24.897	65.924	1.00	25.02
ATOM	15698	C	LEU	2334	5.548	-27.485	68.751	1.00	32.07
ATOM	15699	O	LEU	2334	4.865	-27.297	69.757	1.00	32.09
ATOM	15700	N	ALA	2335	5.688	-28.678	68.177	1.00	35.05
ATOM	15701	CA	ALA	2335	5.030	-29.877	68.694	1.00	38.84
ATOM	15702	CB	ALA	2335	5.356	-31.072	67.810	1.00	38.92
ATOM	15703	C	ALA	2335	5.452	-30.162	70.130	1.00	41.82
ATOM	15704	O	ALA	2335	4.646	-30.605	70.950	1.00	42.61
ATOM	15705	N	GLU	2336	6.723	-29.907	70.424	1.00	45.17
ATOM	15706	CA	GLU	2336	7.273	-30.115	71.761	1.00	48.42
ATOM	15707	CB	GLU	2336	8.790	-29.899	71.741	1.00	50.16
ATOM	15708	CG	GLU	2336	9.571	-30.928	70.936	1.00	52.50
ATOM	15709	CD	GLU	2336	9.730	-32.246	71.666	1.00	53.36
ATOM	15710	OE1	GLU	2336	8.701	-32.871	72.005	1.00	54.49
ATOM	15711	OE2	GLU	2336	10.888	-32.655	71.906	1.00	54.14
ATOM	15712	C	GLU	2336	6.639	-29.130	72.739	1.00	49.37
ATOM	15713	O	GLU	2336	6.895	-29.184	73.941	1.00	49.41
ATOM	15714	N	THR	2337	5.816	-28.228	72.211	1.00	49.87
ATOM	15715	CA	THR	2337	5.150	-27.220	73.026	1.00	49.76
ATOM	15716	CB	THR	2337	6.024	-25.946	73.137	1.00	50.97
ATOM	15717	OG1	THR	2337	5.387	-24.995	74.000	1.00	52.74
ATOM	15718	CG2	THR	2337	6.235	-25.319	71.764	1.00	51.29
ATOM	15719	C	THR	2337	3.793	-26.853	72.424	1.00	48.80
ATOM	15720	O	THR	2337	3.150	-27.676	71.768	1.00	48.94
ATOM	15721	N	GLY	2338	3.356	-25.619	72.651	1.00	47.93
ATOM	15722	CA	GLY	2338	2.080	-25.178	72.114	1.00	45.01
ATOM	15723	C	GLY	2338	2.136	-23.730	71.680	1.00	43.22
ATOM	15724	O	GLY	2338	1.137	-23.163	71.243	1.00	43.86
ATOM	15725	N	ASP	2339	3.317	-23.134	71.795	1.00	40.41
ATOM	15726	CA	ASP	2339	3.518	-21.739	71.426	1.00	38.45
ATOM	15727	CB	ASP	2339	3.672	-20.895	72.696	1.00	40.39
ATOM	15728	CG	ASP	2339	3.966	-19.444	72.402	1.00	43.35
ATOM	15729	OD1	ASP	2339	5.137	-19.121	72.115	1.00	42.97
ATOM	15730	OD2	ASP	2339	3.018	-18.624	72.448	1.00	45.56
ATOM	15731	C	ASP	2339	4.749	-21.598	70.535	1.00	35.60
ATOM	15732	O	ASP	2339	5.797	-22.194	70.800	1.00	33.62
ATOM	15733	N	ILE	2340	4.618	-20.810	69.474	1.00	32.17
ATOM	15734	CA	ILE	2340	5.722	-20.606	68.540	1.00	29.10
ATOM	15735	CB	ILE	2340	5.268	-19.753	67.333	1.00	28.53
ATOM	15736	CG2	ILE	2340	6.447	-19.496	66.400	1.00	26.40

ATOM	15737	CG1	ILE	2340	4.143	-20.477	66.587	1.00	27.31
ATOM	15738	CD1	ILE	2340	3.507	-19.653	65.474	1.00	27.21
ATOM	15739	C	ILE	2340	6.930	-19.945	69.202	1.00	27.86
ATOM	15740	O	ILE	2340	8.064	-20.405	69.045	1.00	27.30
ATOM	15741	N	ARG	2341	6.693	-18.867	69.942	1.00	25.33
ATOM	15742	CA	ARG	2341	7.788	-18.180	70.611	1.00	24.52
ATOM	15743	CB	ARG	2341	7.268	-16.927	71.323	1.00	23.55
ATOM	15744	CG	ARG	2341	6.902	-15.805	70.349	1.00	24.38
ATOM	15745	CD	ARG	2341	6.378	-14.561	71.051	1.00	27.22
ATOM	15746	NE	ARG	2341	6.060	-13.502	70.091	1.00	27.15
ATOM	15747	CZ	ARG	2341	5.076	-13.577	69.200	1.00	28.36
ATOM	15748	NH1	ARG	2341	4.308	-14.657	69.149	1.00	26.92
ATOM	15749	NH2	ARG	2341	4.871	-12.578	68.354	1.00	27.62
ATOM	15750	C	ARG	2341	8.499	-19.116	71.584	1.00	24.05
ATOM	15751	O	ARG	2341	9.713	-19.030	71.753	1.00	23.07
ATOM	15752	N	ALA	2342	7.742	-20.019	72.202	1.00	23.18
ATOM	15753	CA	ALA	2342	8.307	-20.987	73.138	1.00	24.94
ATOM	15754	CB	ALA	2342	7.194	-21.728	73.858	1.00	24.89
ATOM	15755	C	ALA	2342	9.179	-21.973	72.367	1.00	24.76
ATOM	15756	O	ALA	2342	10.204	-22.436	72.865	1.00	25.19
ATOM	15757	N	ALA	2343	8.755	-22.291	71.145	1.00	22.90
ATOM	15758	CA	ALA	2343	9.485	-23.210	70.281	1.00	21.20
ATOM	15759	CB	ALA	2343	8.648	-23.541	69.049	1.00	23.10
ATOM	15760	C	ALA	2343	10.810	-22.574	69.869	1.00	20.25
ATOM	15761	O	ALA	2343	11.840	-23.246	69.810	1.00	19.96
ATOM	15762	N	VAL	2344	10.774	-21.273	69.586	1.00	20.13
ATOM	15763	CA	VAL	2344	11.964	-20.530	69.203	1.00	20.13
ATOM	15764	CB	VAL	2344	11.612	-19.069	68.829	1.00	19.76
ATOM	15765	CG1	VAL	2344	12.883	-18.263	68.605	1.00	21.02
ATOM	15766	CG2	VAL	2344	10.751	-19.057	67.560	1.00	21.33
ATOM	15767	C	VAL	2344	12.983	-20.528	70.343	1.00	20.91
ATOM	15768	O	VAL	2344	14.186	-20.685	70.115	1.00	18.15
ATOM	15769	N	ARG	2345	12.504	-20.367	71.572	1.00	21.37
ATOM	15770	CA	ARG	2345	13.400	-20.354	72.721	1.00	23.97
ATOM	15771	CB	ARG	2345	12.664	-19.858	73.968	1.00	24.17
ATOM	15772	CG	ARG	2345	12.197	-18.414	73.882	1.00	24.76
ATOM	15773	CD	ARG	2345	11.797	-17.895	75.260	1.00	25.91
ATOM	15774	NE	ARG	2345	10.763	-18.723	75.872	1.00	27.57
ATOM	15775	CZ	ARG	2345	9.465	-18.611	75.617	1.00	28.92
ATOM	15776	NH1	ARG	2345	9.027	-17.698	74.758	1.00	28.97
ATOM	15777	NH2	ARG	2345	8.604	-19.417	76.218	1.00	30.22
ATOM	15778	C	ARG	2345	13.986	-21.742	72.974	1.00	25.12
ATOM	15779	O	ARG	2345	15.155	-21.870	73.337	1.00	26.08
ATOM	15780	N	GLN	2346	13.179	-22.778	72.772	1.00	24.82
ATOM	15781	CA	GLN	2346	13.649	-24.137	72.980	1.00	25.54
ATOM	15782	CB	GLN	2346	12.505	-25.133	72.822	1.00	27.18
ATOM	15783	CG	GLN	2346	12.832	-26.509	73.367	1.00	32.29
ATOM	15784	CD	GLN	2346	11.790	-27.544	72.996	1.00	35.43
ATOM	15785	OE1	GLN	2346	10.589	-27.269	73.029	1.00	38.83
ATOM	15786	NE2	GLN	2346	12.242	-28.746	72.648	1.00	36.41
ATOM	15787	C	GLN	2346	14.753	-24.461	71.974	1.00	25.43
ATOM	15788	O	GLN	2346	15.747	-25.104	72.309	1.00	24.79
ATOM	15789	N	TYR	2347	14.571	-24.008	70.738	1.00	24.34
ATOM	15790	CA	TYR	2347	15.555	-24.230	69.685	1.00	24.09
ATOM	15791	CB	TYR	2347	15.043	-23.659	68.358	1.00	24.72
ATOM	15792	CG	TYR	2347	16.087	-23.560	67.259	1.00	24.42
ATOM	15793	CD1	TYR	2347	16.883	-24.656	66.919	1.00	25.35
ATOM	15794	CE1	TYR	2347	17.814	-24.580	65.878	1.00	23.82
ATOM	15795	CD2	TYR	2347	16.248	-22.378	66.533	1.00	23.75
ATOM	15796	CE2	TYR	2347	17.174	-22.290	65.489	1.00	24.65
ATOM	15797	CZ	TYR	2347	17.952	-23.397	65.169	1.00	24.72
ATOM	15798	OH	TYR	2347	18.864	-23.316	64.135	1.00	24.29
ATOM	15799	C	TYR	2347	16.872	-23.569	70.052	1.00	24.13
ATOM	15800	O	TYR	2347	17.933	-24.175	69.930	1.00	23.75
ATOM	15801	N	MET	2348	16.799	-22.320	70.501	1.00	24.26
ATOM	15802	CA	MET	2348	17.996	-21.575	70.887	1.00	25.61
ATOM	15803	CB	MET	2348	17.606	-20.179	71.376	1.00	26.13
ATOM	15804	CG	MET	2348	17.038	-19.273	70.298	1.00	26.95
ATOM	15805	SD	MET	2348	16.196	-17.821	70.988	1.00	30.86
ATOM	15806	CE	MET	2348	17.540	-17.070	71.910	1.00	28.64
ATOM	15807	C	MET	2348	18.748	-22.305	71.990	1.00	25.38
ATOM	15808	O	MET	2348	19.973	-22.437	71.944	1.00	23.27
ATOM	15809	N	ALA	2349	17.993	-22.782	72.973	1.00	25.63
ATOM	15810	CA	ALA	2349	18.546	-23.490	74.121	1.00	26.87
ATOM	15811	CB	ALA	2349	17.452	-23.694	75.165	1.00	26.84
ATOM	15812	C	ALA	2349	19.189	-24.832	73.784	1.00	27.52
ATOM	15813	O	ALA	2349	20.325	-25.094	74.176	1.00	27.80

ATOM	15814	N	GLU	2350	18.461	-25.681	73.065	1.00	27.55
ATOM	15815	CA	GLU	2350	18.982	-26.998	72.715	1.00	28.05
ATOM	15816	CB	GLU	2350	17.908	-27.832	72.020	1.00	27.67
ATOM	15817	CG	GLU	2350	16.646	-28.041	72.838	1.00	30.51
ATOM	15818	CD	GLU	2350	15.822	-29.206	72.325	1.00	30.48
ATOM	15819	OE1	GLU	2350	15.869	-29.475	71.108	1.00	32.21
ATOM	15820	OE2	GLU	2350	15.124	-29.849	73.135	1.00	33.22
ATOM	15821	C	GLU	2350	20.233	-26.937	71.844	1.00	28.06
ATOM	15822	O	GLU	2350	21.058	-27.849	71.877	1.00	26.63
ATOM	15823	N	VAL	2351	20.375	-25.873	71.060	1.00	28.58
ATOM	15824	CA	VAL	2351	21.548	-25.732	70.210	1.00	28.48
ATOM	15825	CB	VAL	2351	21.364	-24.605	69.162	1.00	29.53
ATOM	15826	CG1	VAL	2351	22.678	-24.341	68.438	1.00	28.56
ATOM	15827	CG2	VAL	2351	20.291	-25.003	68.162	1.00	26.63
ATOM	15828	C	VAL	2351	22.751	-25.406	71.091	1.00	30.61
ATOM	15829	O	VAL	2351	23.787	-26.061	71.009	1.00	29.24
ATOM	15830	N	GLU	2352	22.597	-24.404	71.951	1.00	31.03
ATOM	15831	CA	GLU	2352	23.676	-23.997	72.840	1.00	33.56
ATOM	15832	CB	GLU	2352	23.245	-22.796	73.681	1.00	34.00
ATOM	15833	CG	GLU	2352	24.353	-22.236	74.554	1.00	38.30
ATOM	15834	CD	GLU	2352	23.923	-21.011	75.328	1.00	40.92
ATOM	15835	OE1	GLU	2352	24.747	-20.485	76.109	1.00	42.56
ATOM	15836	OE2	GLU	2352	22.765	-20.571	75.159	1.00	42.53
ATOM	15837	C	GLU	2352	24.108	-25.137	73.760	1.00	34.18
ATOM	15838	O	GLU	2352	25.286	-25.266	74.090	1.00	34.72
ATOM	15839	N	SER	2353	23.149	-25.963	74.166	1.00	33.74
ATOM	15840	CA	SER	2353	23.428	-27.085	75.051	1.00	34.92
ATOM	15841	CB	SER	2353	22.166	-27.483	75.815	1.00	35.44
ATOM	15842	OG	SER	2353	21.737	-26.429	76.657	1.00	42.27
ATOM	15843	C	SER	2353	23.952	-28.299	74.299	1.00	34.42
ATOM	15844	O	SER	2353	24.568	-29.186	74.889	1.00	33.68
ATOM	15845	N	GLY	2354	23.703	-28.338	72.995	1.00	32.46
ATOM	15846	CA	GLY	2354	24.150	-29.463	72.198	1.00	31.21
ATOM	15847	C	GLY	2354	23.068	-30.518	72.070	1.00	30.92
ATOM	15848	O	GLY	2354	23.251	-31.517	71.373	1.00	31.34
ATOM	15849	N	VAL	2355	21.941	-30.301	72.747	1.00	29.25
ATOM	15850	CA	VAL	2355	20.814	-31.235	72.702	1.00	29.20
ATOM	15851	CB	VAL	2355	19.627	-30.718	73.547	1.00	29.10
ATOM	15852	CG1	VAL	2355	18.484	-31.725	73.510	1.00	29.45
ATOM	15853	CG2	VAL	2355	20.077	-30.467	74.976	1.00	32.59
ATOM	15854	C	VAL	2355	20.336	-31.413	71.264	1.00	27.59
ATOM	15855	O	VAL	2355	19.911	-32.498	70.863	1.00	26.05
ATOM	15856	N	TYR	2356	20.399	-30.330	70.498	1.00	28.08
ATOM	15857	CA	TYR	2356	19.992	-30.352	69.099	1.00	26.36
ATOM	15858	CB	TYR	2356	18.713	-29.543	68.889	1.00	25.86
ATOM	15859	CG	TYR	2356	18.309	-29.492	67.436	1.00	25.65
ATOM	15860	CD1	TYR	2356	17.733	-30.602	66.817	1.00	25.65
ATOM	15861	CE1	TYR	2356	17.433	-30.596	65.463	1.00	25.60
ATOM	15862	CD2	TYR	2356	18.569	-28.363	66.659	1.00	24.57
ATOM	15863	CE2	TYR	2356	18.271	-28.345	65.299	1.00	24.48
ATOM	15864	CZ	TYR	2356	17.705	-29.466	64.708	1.00	25.02
ATOM	15865	OH	TYR	2356	17.423	-29.471	63.361	1.00	25.86
ATOM	15866	C	TYR	2356	21.099	-29.749	68.245	1.00	27.03
ATOM	15867	O	TYR	2356	21.644	-28.695	68.580	1.00	26.04
ATOM	15868	N	PRO	2357	21.437	-30.405	67.124	1.00	29.12
ATOM	15869	CD	PRO	2357	22.345	-29.867	66.094	1.00	29.21
ATOM	15870	CA	PRO	2357	20.815	-31.650	66.668	1.00	30.27
ATOM	15871	CB	PRO	2357	21.151	-31.672	65.182	1.00	30.86
ATOM	15872	CG	PRO	2357	22.494	-31.034	65.145	1.00	30.20
ATOM	15873	C	PRO	2357	21.331	-32.886	67.397	1.00	32.19
ATOM	15874	O	PRO	2357	22.491	-32.943	67.804	1.00	31.74
ATOM	15875	N	GLY	2358	20.456	-33.870	67.565	1.00	33.64
ATOM	15876	CA	GLY	2358	20.849	-35.094	68.236	1.00	35.88
ATOM	15877	C	GLY	2358	21.322	-36.113	67.222	1.00	36.96
ATOM	15878	O	GLY	2358	21.388	-35.816	66.030	1.00	34.73
ATOM	15879	N	GLU	2359	21.652	-37.313	67.688	1.00	38.39
ATOM	15880	CA	GLU	2359	22.114	-38.369	66.795	1.00	40.49
ATOM	15881	CB	GLU	2359	22.507	-39.612	67.598	1.00	42.44
ATOM	15882	CG	GLU	2359	22.814	-40.830	66.733	1.00	45.21
ATOM	15883	CD	GLU	2359	23.978	-40.605	65.786	1.00	46.88
ATOM	15884	OE1	GLU	2359	24.082	-41.352	64.786	1.00	47.42
ATOM	15885	OE2	GLU	2359	24.792	-39.691	66.045	1.00	48.14
ATOM	15886	C	GLU	2359	21.031	-38.731	65.785	1.00	41.07
ATOM	15887	O	GLU	2359	21.328	-39.164	64.669	1.00	40.53
ATOM	15888	N	GLU	2360	19.773	-38.548	66.180	1.00	40.84
ATOM	15889	CA	GLU	2360	18.647	-38.862	65.302	1.00	41.55
ATOM	15890	CB	GLU	2360	17.321	-38.762	66.069	1.00	43.54

ATOM	15891	CG	GLU	2360	17.420	-39.113	67.543	1.00	47.07
ATOM	15892	CD	GLU	2360	17.895	-37.944	68.389	1.00	48.49
ATOM	15893	OE1	GLU	2360	17.123	-36.972	68.545	1.00	48.54
ATOM	15894	OE2	GLU	2360	19.040	-37.993	68.890	1.00	49.09
ATOM	15895	C	GLU	2360	18.600	-37.912	64.109	1.00	40.20
ATOM	15896	O	GLU	2360	18.018	-38.231	63.073	1.00	40.08
ATOM	15897	N	HIS	2361	19.224	-36.748	64.261	1.00	38.76
ATOM	15898	CA	HIS	2361	19.236	-35.735	63.210	1.00	37.83
ATOM	15899	CB	HIS	2361	18.893	-34.368	63.809	1.00	37.62
ATOM	15900	CG	HIS	2361	17.711	-34.387	64.727	1.00	37.85
ATOM	15901	CD2	HIS	2361	17.616	-34.163	66.060	1.00	37.85
ATOM	15902	ND1	HIS	2361	16.436	-34.685	64.298	1.00	37.99
ATOM	15903	CE1	HIS	2361	15.607	-34.644	65.325	1.00	37.41
ATOM	15904	NE2	HIS	2361	16.297	-34.329	66.406	1.00	37.44
ATOM	15905	C	HIS	2361	20.588	-35.639	62.514	1.00	37.16
ATOM	15906	O	HIS	2361	20.815	-34.739	61.704	1.00	35.47
ATOM	15907	N	SER	2362	21.479	-36.569	62.829	1.00	37.15
ATOM	15908	CA	SER	2362	22.814	-36.561	62.251	1.00	37.47
ATOM	15909	CB	SER	2362	23.845	-36.519	63.376	1.00	37.24
ATOM	15910	OG	SER	2362	23.557	-35.456	64.274	1.00	38.09
ATOM	15911	C	SER	2362	23.087	-37.757	61.342	1.00	38.18
ATOM	15912	O	SER	2362	22.511	-38.831	61.519	1.00	37.89
ATOM	15913	N	PHE	2363	23.966	-37.559	60.363	1.00	38.60
ATOM	15914	CA	PHE	2363	24.333	-38.617	59.429	1.00	39.77
ATOM	15915	CB	PHE	2363	24.257	-38.119	57.983	1.00	39.50
ATOM	15916	CG	PHE	2363	22.932	-37.524	57.613	1.00	39.62
ATOM	15917	CD1	PHE	2363	22.689	-36.168	57.797	1.00	40.24
ATOM	15918	CD2	PHE	2363	21.923	-38.318	57.083	1.00	39.74
ATOM	15919	CE1	PHE	2363	21.461	-35.608	57.455	1.00	41.07
ATOM	15920	CE2	PHE	2363	20.690	-37.769	56.737	1.00	40.32
ATOM	15921	CZ	PHE	2363	20.459	-36.410	56.924	1.00	40.17
ATOM	15922	C	PHE	2363	25.756	-39.089	59.719	1.00	40.49
ATOM	15923	O	PHE	2363	26.502	-38.428	60.442	1.00	39.62
ATOM	15924	N	HIS	2364	26.129	-40.228	59.145	1.00	41.96
ATOM	15925	CA	HIS	2364	27.462	-40.791	59.336	1.00	44.57
ATOM	15926	CB	HIS	2364	27.468	-41.742	60.532	1.00	44.77
ATOM	15927	CG	HIS	2364	27.333	-41.053	61.852	1.00	44.87
ATOM	15928	CD2	HIS	2364	26.330	-41.057	62.762	1.00	45.16
ATOM	15929	ND1	HIS	2364	28.310	-40.227	62.363	1.00	45.32
ATOM	15930	CE1	HIS	2364	27.916	-39.752	63.531	1.00	45.82
ATOM	15931	NE2	HIS	2364	26.718	-40.241	63.796	1.00	45.37
ATOM	15932	C	HIS	2364	27.935	-41.537	58.092	1.00	45.86
ATOM	15933	O	HIS	2364	29.117	-41.375	57.723	1.00	47.15
ATOM	15934	OXT	HIS	2364	27.124	-42.291	57.514	1.00	48.19
ATOM	15935	C1	KPL	2365	18.263	-24.454	54.329	1.00	39.29
ATOM	15936	C2	KPL	2365	19.445	-23.498	54.099	1.00	40.45
ATOM	15937	C3	KPL	2365	19.514	-22.489	55.256	1.00	40.25
ATOM	15938	C4	KPL	2365	20.756	-24.301	54.085	1.00	41.68
ATOM	15939	O1	KPL	2365	20.736	-25.261	53.017	1.00	44.61
ATOM	15940	C5	KPL	2365	19.261	-22.740	52.762	1.00	39.00
ATOM	15941	O2	KPL	2365	20.101	-22.834	51.890	1.00	40.74
ATOM	15942	C6	KPL	2365	18.054	-21.873	52.491	1.00	37.37
ATOM	15943	O3	KPL	2365	17.180	-21.735	53.324	1.00	37.05
ATOM	15944	O4	KPL	2365	17.942	-21.245	51.309	1.00	32.80
ATOM	15945	CB	MET	2401	40.796	32.161	43.908	1.00	71.21
ATOM	15946	CG	MET	2401	41.476	32.073	42.556	1.00	72.09
ATOM	15947	SD	MET	2401	42.294	33.600	42.104	1.00	73.69
ATOM	15948	CE	MET	2401	40.917	34.510	41.409	1.00	73.19
ATOM	15949	C	MET	2401	38.557	31.175	43.385	1.00	69.44
ATOM	15950	O	MET	2401	37.456	31.030	43.915	1.00	69.61
ATOM	15951	N	MET	2401	40.519	29.702	43.899	1.00	70.53
ATOM	15952	CA	MET	2401	39.842	30.999	44.194	1.00	70.42
ATOM	15953	N	LYS	2402	38.701	31.491	42.101	1.00	67.98
ATOM	15954	CA	LYS	2402	37.549	31.687	41.227	1.00	65.67
ATOM	15955	CB	LYS	2402	37.289	33.184	41.023	1.00	66.61
ATOM	15956	CG	LYS	2402	36.953	33.945	42.298	1.00	67.98
ATOM	15957	CD	LYS	2402	35.541	33.652	42.783	1.00	68.89
ATOM	15958	CE	LYS	2402	34.501	34.222	41.830	1.00	69.72
ATOM	15959	NZ	LYS	2402	33.116	34.024	42.339	1.00	70.87
ATOM	15960	C	LYS	2402	37.781	31.021	39.875	1.00	62.73
ATOM	15961	O	LYS	2402	38.258	31.656	38.935	1.00	63.72
ATOM	15962	N	PRO	2403	37.454	29.725	39.763	1.00	59.41
ATOM	15963	CD	PRO	2403	37.320	29.060	38.454	1.00	58.79
ATOM	15964	CA	PRO	2403	36.895	28.884	40.825	1.00	55.82
ATOM	15965	CB	PRO	2403	35.981	27.948	40.054	1.00	57.33
ATOM	15966	CG	PRO	2403	36.797	27.681	38.829	1.00	58.38
ATOM	15967	C	PRO	2403	37.987	28.122	41.576	1.00	52.24



ATOM	15968	O	PRO	2403	39.149	28.127	41.170	1.00	51.69
ATOM	15969	N	THR	2404	37.605	27.465	42.667	1.00	47.66
ATOM	15970	CA	THR	2404	38.550	26.690	43.463	1.00	43.63
ATOM	15971	CB	THR	2404	37.971	26.341	44.846	1.00	43.73
ATOM	15972	OG1	THR	2404	37.739	27.544	45.588	1.00	43.30
ATOM	15973	CG2	THR	2404	38.935	25.452	45.617	1.00	42.68
ATOM	15974	C	THR	2404	38.887	25.393	42.740	1.00	41.58
ATOM	15975	O	THR	2404	38.007	24.741	42.178	1.00	38.87
ATOM	15976	N	THR	2405	40.163	25.022	42.762	1.00	40.92
ATOM	15977	CA	THR	2405	40.617	23.807	42.101	1.00	40.37
ATOM	15978	CB	THR	2405	41.289	24.127	40.753	1.00	40.36
ATOM	15979	OG1	THR	2405	42.436	24.956	40.974	1.00	40.01
ATOM	15980	CG2	THR	2405	40.317	24.849	39.832	1.00	39.63
ATOM	15981	C	THR	2405	41.607	23.020	42.954	1.00	40.56
ATOM	15982	O	THR	2405	42.106	23.514	43.966	1.00	39.81
ATOM	15983	N	ILE	2406	41.883	21.790	42.531	1.00	40.97
ATOM	15984	CA	ILE	2406	42.815	20.909	43.228	1.00	41.27
ATOM	15985	CB	ILE	2406	43.064	19.621	42.414	1.00	41.43
ATOM	15986	CG2	ILE	2406	43.817	18.602	43.264	1.00	39.98
ATOM	15987	CG1	ILE	2406	41.730	19.036	41.949	1.00	42.65
ATOM	15988	CD1	ILE	2406	41.859	18.074	40.783	1.00	44.77
ATOM	15989	C	ILE	2406	44.154	21.614	43.423	1.00	41.31
ATOM	15990	O	ILE	2406	44.771	21.514	44.482	1.00	41.10
ATOM	15991	N	SER	2407	44.595	22.327	42.392	1.00	41.82
ATOM	15992	CA	SER	2407	45.864	23.043	42.442	1.00	42.16
ATOM	15993	CB	SER	2407	46.042	23.881	41.175	1.00	42.77
ATOM	15994	OG	SER	2407	46.077	23.056	40.026	1.00	45.09
ATOM	15995	C	SER	2407	45.974	23.942	43.669	1.00	41.86
ATOM	15996	O	SER	2407	47.060	24.130	44.217	1.00	42.04
ATOM	15997	N	LEU	2408	44.846	24.495	44.101	1.00	41.20
ATOM	15998	CA	LEU	2408	44.838	25.374	45.262	1.00	40.42
ATOM	15999	CB	LEU	2408	43.483	26.071	45.390	1.00	41.71
ATOM	16000	CG	LEU	2408	43.521	27.558	45.753	1.00	42.81
ATOM	16001	CD1	LEU	2408	42.115	28.034	46.090	1.00	42.95
ATOM	16002	CD2	LEU	2408	44.449	27.786	46.927	1.00	43.29
ATOM	16003	C	LEU	2408	45.126	24.580	46.533	1.00	39.32
ATOM	16004	O	LEU	2408	45.921	25.004	47.372	1.00	38.69
ATOM	16005	N	LEU	2409	44.475	23.428	46.668	1.00	38.01
ATOM	16006	CA	LEU	2409	44.658	22.571	47.836	1.00	37.10
ATOM	16007	CB	LEU	2409	43.746	21.348	47.748	1.00	36.29
ATOM	16008	CG	LEU	2409	42.235	21.599	47.772	1.00	37.24
ATOM	16009	CD1	LEU	2409	41.507	20.264	47.730	1.00	36.39
ATOM	16010	CD2	LEU	2409	41.859	22.369	49.024	1.00	36.03
ATOM	16011	C	LEU	2409	46.103	22.113	47.956	1.00	37.48
ATOM	16012	O	LEU	2409	46.654	22.037	49.055	1.00	37.24
ATOM	16013	N	GLN	2410	46.711	21.805	46.815	1.00	37.94
ATOM	16014	CA	GLN	2410	48.096	21.356	46.779	1.00	38.43
ATOM	16015	CB	GLN	2410	48.487	20.989	45.346	1.00	38.65
ATOM	16016	CG	GLN	2410	49.854	20.334	45.206	1.00	39.36
ATOM	16017	CD	GLN	2410	49.974	19.041	45.993	1.00	40.42
ATOM	16018	OE1	GLN	2410	50.233	19.054	47.198	1.00	40.18
ATOM	16019	NE2	GLN	2410	49.772	17.912	45.314	1.00	39.42
ATOM	16020	C	GLN	2410	48.986	22.477	47.299	1.00	38.19
ATOM	16021	O	GLN	2410	49.927	22.239	48.057	1.00	38.73
ATOM	16022	N	LYS	2411	48.676	23.701	46.888	1.00	38.25
ATOM	16023	CA	LYS	2411	49.431	24.866	47.324	1.00	38.59
ATOM	16024	CB	LYS	2411	48.887	26.129	46.652	1.00	40.48
ATOM	16025	CG	LYS	2411	49.561	27.410	47.114	1.00	44.48
ATOM	16026	CD	LYS	2411	48.792	28.639	46.664	1.00	46.76
ATOM	16027	CE	LYS	2411	49.479	29.911	47.132	1.00	48.94
ATOM	16028	NZ	LYS	2411	48.656	31.123	46.857	1.00	51.10
ATOM	16029	C	LYS	2411	49.313	25.009	48.839	1.00	37.82
ATOM	16030	O	LYS	2411	50.300	25.261	49.533	1.00	36.98
ATOM	16031	N	TYR	2412	48.094	24.846	49.346	1.00	36.70
ATOM	16032	CA	TYR	2412	47.839	24.959	50.776	1.00	36.04
ATOM	16033	CB	TYR	2412	46.364	24.667	51.075	1.00	38.21
ATOM	16034	CG	TYR	2412	45.409	25.792	50.731	1.00	39.60
ATOM	16035	CD1	TYR	2412	44.029	25.579	50.728	1.00	41.45
ATOM	16036	CE1	TYR	2412	43.137	26.615	50.450	1.00	42.37
ATOM	16037	CD2	TYR	2412	45.877	27.075	50.444	1.00	40.64
ATOM	16038	CE2	TYR	2412	44.995	28.117	50.166	1.00	41.94
ATOM	16039	CZ	TYR	2412	43.626	27.879	50.172	1.00	42.98
ATOM	16040	OH	TYR	2412	42.746	28.905	49.908	1.00	45.55
ATOM	16041	C	TYR	2412	48.726	24.020	51.587	1.00	33.83
ATOM	16042	O	TYR	2412	49.264	24.408	52.621	1.00	32.94
ATOM	16043	N	LYS	2413	48.884	22.787	51.118	1.00	32.53
ATOM	16044	CA	LYS	2413	49.711	21.825	51.832	1.00	34.20

ATOM	16045	CB	LYS	2413	49.613	20.437	51.197	1.00	32.95
ATOM	16046	CG	LYS	2413	50.515	19.412	51.871	1.00	31.62
ATOM	16047	CD	LYS	2413	50.181	17.995	51.455	1.00	30.68
ATOM	16048	CE	LYS	2413	51.017	16.996	52.235	1.00	29.20
ATOM	16049	NZ	LYS	2413	50.512	15.606	52.122	1.00	28.10
ATOM	16050	C	LYS	2413	51.168	22.266	51.848	1.00	34.97
ATOM	16051	O	LYS	2413	51.864	22.101	52.848	1.00	33.55
ATOM	16052	N	GLN	2414	51.629	22.815	50.730	1.00	37.13
ATOM	16053	CA	GLN	2414	53.002	23.282	50.631	1.00	40.24
ATOM	16054	CB	GLN	2414	53.301	23.745	49.207	1.00	43.05
ATOM	16055	CG	GLN	2414	53.429	22.605	48.210	1.00	47.04
ATOM	16056	CD	GLN	2414	53.593	23.099	46.784	1.00	49.63
ATOM	16057	OE1	GLN	2414	54.346	24.043	46.523	1.00	51.23
ATOM	16058	NE2	GLN	2414	52.897	22.457	45.850	1.00	49.77
ATOM	16059	C	GLN	2414	53.228	24.425	51.609	1.00	41.12
ATOM	16060	O	GLN	2414	54.266	24.494	52.267	1.00	41.34
ATOM	16061	N	GLU	2415	52.247	25.315	51.704	1.00	41.66
ATOM	16062	CA	GLU	2415	52.325	26.454	52.609	1.00	42.25
ATOM	16063	CB	GLU	2415	51.333	27.536	52.180	1.00	43.79
ATOM	16064	CG	GLU	2415	51.495	27.981	50.740	1.00	46.53
ATOM	16065	CD	GLU	2415	50.637	29.182	50.404	1.00	47.48
ATOM	16066	OE1	GLU	2415	49.401	29.100	50.564	1.00	48.81
ATOM	16067	OE2	GLU	2415	51.202	30.212	49.979	1.00	49.09
ATOM	16068	C	GLU	2415	52.011	26.010	54.034	1.00	41.63
ATOM	16069	O	GLU	2415	52.000	26.820	54.964	1.00	41.75
ATOM	16070	N	LYS	2416	51.753	24.716	54.194	1.00	40.45
ATOM	16071	CA	LYS	2416	51.435	24.143	55.496	1.00	40.01
ATOM	16072	CB	LYS	2416	52.607	24.345	56.458	1.00	42.70
ATOM	16073	CG	LYS	2416	53.969	24.092	55.830	1.00	45.22
ATOM	16074	CD	LYS	2416	54.093	22.669	55.316	1.00	47.92
ATOM	16075	CE	LYS	2416	55.361	22.490	54.492	1.00	49.09
ATOM	16076	NZ	LYS	2416	56.586	22.872	55.248	1.00	50.44
ATOM	16077	C	LYS	2416	50.177	24.784	56.077	1.00	38.54
ATOM	16078	O	LYS	2416	50.012	24.850	57.295	1.00	38.60
ATOM	16079	N	LYS	2417	49.296	25.266	55.205	1.00	36.93
ATOM	16080	CA	LYS	2417	48.053	25.891	55.644	1.00	34.59
ATOM	16081	CB	LYS	2417	47.682	27.061	54.727	1.00	35.93
ATOM	16082	CG	LYS	2417	46.420	27.802	55.159	1.00	36.62
ATOM	16083	CD	LYS	2417	45.948	28.803	54.106	1.00	40.30
ATOM	16084	CE	LYS	2417	46.952	29.928	53.890	1.00	41.87
ATOM	16085	NZ	LYS	2417	46.553	30.824	52.762	1.00	42.71
ATOM	16086	C	LYS	2417	46.917	24.873	55.641	1.00	33.02
ATOM	16087	O	LYS	2417	46.510	24.388	54.584	1.00	31.46
ATOM	16088	N	ARG	2418	46.414	24.552	56.829	1.00	31.31
ATOM	16089	CA	ARG	2418	45.320	23.595	56.968	1.00	29.79
ATOM	16090	CB	ARG	2418	45.198	23.161	58.429	1.00	30.22
ATOM	16091	CG	ARG	2418	46.304	22.203	58.847	1.00	31.76
ATOM	16092	CD	ARG	2418	46.446	22.096	60.355	1.00	33.22
ATOM	16093	NE	ARG	2418	46.949	23.344	60.925	1.00	34.67
ATOM	16094	CZ	ARG	2418	47.516	23.446	62.122	1.00	34.59
ATOM	16095	NH1	ARG	2418	47.659	22.371	62.884	1.00	35.64
ATOM	16096	NH2	ARG	2418	47.938	24.623	62.556	1.00	33.41
ATOM	16097	C	ARG	2418	44.011	24.195	56.466	1.00	28.42
ATOM	16098	O	ARG	2418	43.638	25.300	56.854	1.00	28.67
ATOM	16099	N	PHE	2419	43.318	23.454	55.603	1.00	27.53
ATOM	16100	CA	PHE	2419	42.065	23.915	55.005	1.00	24.08
ATOM	16101	CB	PHE	2419	42.198	23.883	53.478	1.00	25.14
ATOM	16102	CG	PHE	2419	42.502	22.519	52.917	1.00	27.81
ATOM	16103	CD1	PHE	2419	41.472	21.650	52.560	1.00	27.73
ATOM	16104	CD2	PHE	2419	43.821	22.100	52.742	1.00	27.96
ATOM	16105	CE1	PHE	2419	41.748	20.387	52.036	1.00	26.05
ATOM	16106	CE2	PHE	2419	44.109	20.836	52.218	1.00	28.62
ATOM	16107	CZ	PHE	2419	43.070	19.978	51.864	1.00	27.50
ATOM	16108	C	PHE	2419	40.837	23.110	55.439	1.00	22.88
ATOM	16109	O	PHE	2419	40.930	21.924	55.734	1.00	19.16
ATOM	16110	N	ALA	2420	39.684	23.768	55.476	1.00	21.94
ATOM	16111	CA	ALA	2420	38.456	23.100	55.872	1.00	22.77
ATOM	16112	CB	ALA	2420	37.617	24.027	56.757	1.00	21.44
ATOM	16113	C	ALA	2420	37.640	22.656	54.660	1.00	22.17
ATOM	16114	O	ALA	2420	37.611	23.332	53.626	1.00	22.74
ATOM	16115	N	THR	2421	36.977	21.512	54.802	1.00	22.82
ATOM	16116	CA	THR	2421	36.138	20.942	53.750	1.00	22.02
ATOM	16117	CB	THR	2421	36.814	19.711	53.110	1.00	24.06
ATOM	16118	OG1	THR	2421	38.061	20.108	52.514	1.00	26.62
ATOM	16119	CG2	THR	2421	35.923	19.109	52.048	1.00	27.64
ATOM	16120	C	THR	2421	34.839	20.509	54.419	1.00	18.96
ATOM	16121	O	THR	2421	34.814	20.246	55.619	1.00	18.47

ATOM	16122	N	ILE	2422	33.759	20.422	53.656	1.00	19.02
ATOM	16123	CA	ILE	2422	32.487	20.040	54.257	1.00	17.25
ATOM	16124	CB	ILE	2422	31.764	21.296	54.811	1.00	19.41
ATOM	16125	CG2	ILE	2422	31.183	22.112	53.667	1.00	20.48
ATOM	16126	CG1	ILE	2422	30.664	20.889	55.792	1.00	21.17
ATOM	16127	CD1	ILE	2422	30.129	22.046	56.604	1.00	25.73
ATOM	16128	C	ILE	2422	31.574	19.332	53.269	1.00	17.99
ATOM	16129	O	ILE	2422	31.726	19.474	52.059	1.00	16.35
ATOM	16130	N	THR	2423	30.625	18.569	53.793	1.00	17.55
ATOM	16131	CA	THR	2423	29.686	17.873	52.932	1.00	20.49
ATOM	16132	CB	THR	2423	29.163	16.577	53.580	1.00	21.53
ATOM	16133	OG1	THR	2423	28.287	16.899	54.668	1.00	22.21
ATOM	16134	CG2	THR	2423	30.327	15.738	54.098	1.00	26.19
ATOM	16135	C	THR	2423	28.514	18.815	52.682	1.00	19.08
ATOM	16136	O	THR	2423	28.210	19.678	53.504	1.00	18.44
ATOM	16137	N	ALA	2424	27.877	18.661	51.527	1.00	18.78
ATOM	16138	CA	ALA	2424	26.730	19.476	51.154	1.00	16.80
ATOM	16139	CB	ALA	2424	27.180	20.720	50.394	1.00	17.89
ATOM	16140	C	ALA	2424	25.843	18.614	50.269	1.00	17.29
ATOM	16141	O	ALA	2424	26.342	17.787	49.510	1.00	15.04
ATOM	16142	N	TYR	2425	24.532	18.795	50.361	1.00	16.73
ATOM	16143	CA	TYR	2425	23.633	17.982	49.547	1.00	17.37
ATOM	16144	CB	TYR	2425	23.040	16.852	50.387	1.00	16.33
ATOM	16145	CG	TYR	2425	24.006	16.220	51.351	1.00	17.54
ATOM	16146	CD1	TYR	2425	23.974	16.546	52.704	1.00	18.85
ATOM	16147	CE1	TYR	2425	24.846	15.954	53.605	1.00	19.50
ATOM	16148	CD2	TYR	2425	24.946	15.285	50.917	1.00	17.67
ATOM	16149	CE2	TYR	2425	25.829	14.684	51.815	1.00	18.16
ATOM	16150	CZ	TYR	2425	25.766	15.026	53.160	1.00	19.76
ATOM	16151	OH	TYR	2425	26.608	14.418	54.065	1.00	21.42
ATOM	16152	C	TYR	2425	22.496	18.760	48.908	1.00	18.27
ATOM	16153	O	TYR	2425	21.639	18.172	48.248	1.00	20.53
ATOM	16154	N	ASP	2426	22.477	20.074	49.101	1.00	17.43
ATOM	16155	CA	ASP	2426	21.420	20.899	48.525	1.00	17.57
ATOM	16156	CB	ASP	2426	20.228	20.964	49.486	1.00	17.38
ATOM	16157	CG	ASP	2426	20.581	21.617	50.824	1.00	18.75
ATOM	16158	OD1	ASP	2426	20.752	22.849	50.861	1.00	20.93
ATOM	16159	OD2	ASP	2426	20.687	20.892	51.836	1.00	19.12
ATOM	16160	C	ASP	2426	21.904	22.309	48.195	1.00	19.13
ATOM	16161	O	ASP	2426	22.985	22.720	48.615	1.00	19.45
ATOM	16162	N	TYR	2427	21.084	23.040	47.448	1.00	17.80
ATOM	16163	CA	TYR	2427	21.385	24.404	47.026	1.00	20.14
ATOM	16164	CB	TYR	2427	20.232	24.941	46.175	1.00	19.94
ATOM	16165	CG	TYR	2427	20.321	26.420	45.862	1.00	20.70
ATOM	16166	CD1	TYR	2427	21.142	26.891	44.838	1.00	20.50
ATOM	16167	CE1	TYR	2427	21.222	28.253	44.547	1.00	23.68
ATOM	16168	CD2	TYR	2427	19.581	27.351	46.594	1.00	23.01
ATOM	16169	CE2	TYR	2427	19.652	28.711	46.314	1.00	23.40
ATOM	16170	CZ	TYR	2427	20.470	29.156	45.291	1.00	24.74
ATOM	16171	OH	TYR	2427	20.526	30.499	45.006	1.00	28.18
ATOM	16172	C	TYR	2427	21.630	25.382	48.174	1.00	20.13
ATOM	16173	O	TYR	2427	22.609	26.124	48.163	1.00	19.70
ATOM	16174	N	SER	2428	20.727	25.379	49.148	1.00	20.69
ATOM	16175	CA	SER	2428	20.794	26.288	50.287	1.00	20.45
ATOM	16176	CB	SER	2428	19.592	26.055	51.200	1.00	21.08
ATOM	16177	OG	SER	2428	18.394	26.357	50.511	1.00	19.23
ATOM	16178	C	SER	2428	22.077	26.252	51.107	1.00	20.33
ATOM	16179	O	SER	2428	22.717	27.289	51.328	1.00	19.96
ATOM	16180	N	PHE	2429	22.456	25.073	51.580	1.00	18.92
ATOM	16181	CA	PHE	2429	23.678	24.976	52.363	1.00	18.46
ATOM	16182	CB	PHE	2429	23.739	23.643	53.120	1.00	17.47
ATOM	16183	CG	PHE	2429	22.916	23.633	54.381	1.00	18.24
ATOM	16184	CD1	PHE	2429	21.682	22.986	54.427	1.00	17.48
ATOM	16185	CD2	PHE	2429	23.370	24.296	55.524	1.00	15.99
ATOM	16186	CE1	PHE	2429	20.911	22.995	55.590	1.00	17.58
ATOM	16187	CE2	PHE	2429	22.611	24.312	56.686	1.00	13.97
ATOM	16188	CZ	PHE	2429	21.376	23.661	56.727	1.00	17.59
ATOM	16189	C	PHE	2429	24.917	25.174	51.496	1.00	19.44
ATOM	16190	O	PHE	2429	25.885	25.813	51.924	1.00	18.28
ATOM	16191	N	ALA	2430	24.892	24.653	50.271	1.00	20.34
ATOM	16192	CA	ALA	2430	26.035	24.831	49.381	1.00	22.75
ATOM	16193	CB	ALA	2430	25.805	24.092	48.064	1.00	22.82
ATOM	16194	C	ALA	2430	26.251	26.325	49.119	1.00	23.92
ATOM	16195	O	ALA	2430	27.388	26.792	49.003	1.00	25.09
ATOM	16196	N	LYS	2431	25.148	27.065	49.037	1.00	24.33
ATOM	16197	CA	LYS	2431	25.180	28.506	48.797	1.00	25.15
ATOM	16198	CB	LYS	2431	23.767	28.999	48.460	1.00	27.16

ATOM	16199	CG	LYS	2431	23.646	30.478	48.124	1.00	29.73
ATOM	16200	CD	LYS	2431	24.318	30.816	46.811	1.00	34.33
ATOM	16201	CE	LYS	2431	23.775	32.117	46.241	1.00	37.47
ATOM	16202	NZ	LYS	2431	23.956	33.264	47.174	1.00	39.95
ATOM	16203	C	LYS	2431	25.712	29.246	50.027	1.00	24.27
ATOM	16204	O	LYS	2431	26.546	30.145	49.918	1.00	23.43
ATOM	16205	N	LEU	2432	25.219	28.858	51.198	1.00	23.70
ATOM	16206	CA	LEU	2432	25.641	29.468	52.451	1.00	23.86
ATOM	16207	CB	LEU	2432	24.812	28.898	53.609	1.00	21.16
ATOM	16208	CG	LEU	2432	25.055	29.415	55.035	1.00	19.80
ATOM	16209	CD1	LEU	2432	23.849	29.079	55.909	1.00	16.46
ATOM	16210	CD2	LEU	2432	26.322	28.796	55.613	1.00	16.28
ATOM	16211	C	LEU	2432	27.132	29.240	52.697	1.00	24.74
ATOM	16212	O	LEU	2432	27.825	30.134	53.180	1.00	25.72
ATOM	16213	N	PHE	2433	27.630	28.051	52.367	1.00	25.69
ATOM	16214	CA	PHE	2433	29.049	27.752	52.567	1.00	25.88
ATOM	16215	CB	PHE	2433	29.343	26.259	52.358	1.00	25.66
ATOM	16216	CG	PHE	2433	28.615	25.342	53.307	1.00	23.12
ATOM	16217	CD1	PHE	2433	28.351	25.728	54.621	1.00	20.93
ATOM	16218	CD2	PHE	2433	28.204	24.076	52.884	1.00	22.54
ATOM	16219	CE1	PHE	2433	27.688	24.873	55.499	1.00	21.36
ATOM	16220	CE2	PHE	2433	27.542	23.214	53.756	1.00	21.24
ATOM	16221	CZ	PHE	2433	27.281	23.613	55.068	1.00	23.36
ATOM	16222	C	PHE	2433	29.918	28.557	51.606	1.00	28.10
ATOM	16223	O	PHE	2433	30.890	29.192	52.019	1.00	26.80
ATOM	16224	N	ALA	2434	29.575	28.520	50.319	1.00	28.19
ATOM	16225	CA	ALA	2434	30.341	29.250	49.314	1.00	29.37
ATOM	16226	CB	ALA	2434	29.714	29.072	47.934	1.00	28.66
ATOM	16227	C	ALA	2434	30.424	30.731	49.665	1.00	29.43
ATOM	16228	O	ALA	2434	31.465	31.358	49.480	1.00	29.86
ATOM	16229	N	ASP	2435	29.331	31.289	50.176	1.00	29.97
ATOM	16230	CA	ASP	2435	29.320	32.702	50.540	1.00	32.22
ATOM	16231	CB	ASP	2435	27.893	33.205	50.766	1.00	33.58
ATOM	16232	CG	ASP	2435	27.021	33.062	49.539	1.00	36.19
ATOM	16233	OD1	ASP	2435	27.540	33.202	48.409	1.00	37.94
ATOM	16234	OD2	ASP	2435	25.807	32.825	49.706	1.00	38.98
ATOM	16235	C	ASP	2435	30.143	32.997	51.787	1.00	32.06
ATOM	16236	O	ASP	2435	30.372	34.161	52.117	1.00	32.90
ATOM	16237	N	GLU	2436	30.580	31.955	52.486	1.00	31.24
ATOM	16238	CA	GLU	2436	31.376	32.149	53.687	1.00	31.97
ATOM	16239	CB	GLU	2436	30.816	31.326	54.850	1.00	32.11
ATOM	16240	CG	GLU	2436	29.464	31.801	55.357	1.00	33.39
ATOM	16241	CD	GLU	2436	29.453	33.285	55.680	1.00	33.83
ATOM	16242	OE1	GLU	2436	30.357	33.745	56.411	1.00	35.70
ATOM	16243	OE2	GLU	2436	28.537	33.987	55.208	1.00	33.76
ATOM	16244	C	GLU	2436	32.836	31.790	53.472	1.00	32.46
ATOM	16245	O	GLU	2436	33.659	31.983	54.362	1.00	32.04
ATOM	16246	N	GLY	2437	33.162	31.265	52.294	1.00	32.25
ATOM	16247	CA	GLY	2437	34.542	30.904	52.026	1.00	33.78
ATOM	16248	C	GLY	2437	34.786	29.425	51.797	1.00	33.68
ATOM	16249	O	GLY	2437	35.759	29.062	51.143	1.00	36.34
ATOM	16250	N	LEU	2438	33.927	28.569	52.347	1.00	32.66
ATOM	16251	CA	LEU	2438	34.066	27.127	52.161	1.00	32.08
ATOM	16252	CB	LEU	2438	33.059	26.372	53.031	1.00	32.00
ATOM	16253	CG	LEU	2438	33.606	25.758	54.314	1.00	31.91
ATOM	16254	CD1	LEU	2438	32.472	25.144	55.116	1.00	31.31
ATOM	16255	CD2	LEU	2438	34.656	24.708	53.977	1.00	32.09
ATOM	16256	C	LEU	2438	33.810	26.810	50.697	1.00	30.44
ATOM	16257	O	LEU	2438	32.659	26.721	50.267	1.00	30.98
ATOM	16258	N	ASN	2439	34.889	26.641	49.940	1.00	29.40
ATOM	16259	CA	ASN	2439	34.788	26.370	48.513	1.00	28.49
ATOM	16260	CB	ASN	2439	35.721	27.306	47.738	1.00	31.32
ATOM	16261	CG	ASN	2439	35.549	28.764	48.134	1.00	34.03
ATOM	16262	OD1	ASN	2439	34.435	29.292	48.140	1.00	36.11
ATOM	16263	ND2	ASN	2439	36.655	29.422	48.461	1.00	35.10
ATOM	16264	C	ASN	2439	35.122	24.922	48.173	1.00	26.24
ATOM	16265	O	ASN	2439	35.344	24.593	47.012	1.00	25.25
ATOM	16266	N	VAL	2440	35.155	24.065	49.188	1.00	24.29
ATOM	16267	CA	VAL	2440	35.446	22.657	48.985	1.00	24.09
ATOM	16268	CB	VAL	2440	36.774	22.248	49.640	1.00	25.05
ATOM	16269	CG1	VAL	2440	37.067	20.788	49.345	1.00	24.91
ATOM	16270	CG2	VAL	2440	37.896	23.126	49.114	1.00	25.37
ATOM	16271	C	VAL	2440	34.323	21.843	49.597	1.00	22.62
ATOM	16272	O	VAL	2440	34.228	21.711	50.816	1.00	19.04
ATOM	16273	N	MET	2441	33.471	21.297	48.737	1.00	21.81
ATOM	16274	CA	MET	2441	32.322	20.528	49.183	1.00	20.07
ATOM	16275	CB	MET	2441	31.033	21.250	48.785	1.00	22.11

ATOM	16276	CG	MET	2441	30.682	22.414	49.695	1.00	23.98
ATOM	16277	SD	MET	2441	29.512	23.563	48.974	1.00	25.48
ATOM	16278	CE	MET	2441	30.566	25.021	48.739	1.00	24.85
ATOM	16279	C	MET	2441	32.295	19.118	48.637	1.00	20.47
ATOM	16280	O	MET	2441	32.712	18.867	47.508	1.00	19.61
ATOM	16281	N	LEU	2442	31.786	18.200	49.450	1.00	19.57
ATOM	16282	CA	LEU	2442	31.689	16.805	49.055	1.00	20.14
ATOM	16283	CB	LEU	2442	32.576	15.951	49.964	1.00	20.82
ATOM	16284	CG	LEU	2442	32.654	14.421	49.855	1.00	24.63
ATOM	16285	CD1	LEU	2442	31.547	13.810	50.661	1.00	25.41
ATOM	16286	CD2	LEU	2442	32.611	13.956	48.399	1.00	22.10
ATOM	16287	C	LEU	2442	30.254	16.307	49.104	1.00	18.06
ATOM	16288	O	LEU	2442	29.556	16.453	50.109	1.00	15.33
ATOM	16289	N	VAL	2443	29.816	15.730	47.998	1.00	16.74
ATOM	16290	CA	VAL	2443	28.481	15.155	47.931	1.00	18.13
ATOM	16291	CB	VAL	2443	27.850	15.367	46.553	1.00	18.92
ATOM	16292	CG1	VAL	2443	26.449	14.756	46.527	1.00	18.84
ATOM	16293	CG2	VAL	2443	27.797	16.855	46.235	1.00	20.62
ATOM	16294	C	VAL	2443	28.743	13.675	48.162	1.00	18.17
ATOM	16295	O	VAL	2443	28.939	12.918	47.214	1.00	18.72
ATOM	16296	N	GLY	2444	28.759	13.278	49.432	1.00	17.59
ATOM	16297	CA	GLY	2444	29.047	11.901	49.773	1.00	17.73
ATOM	16298	C	GLY	2444	27.848	11.015	50.003	1.00	19.75
ATOM	16299	O	GLY	2444	26.722	11.499	50.162	1.00	18.97
ATOM	16300	N	ASP	2445	28.083	9.706	50.019	1.00	19.18
ATOM	16301	CA	ASP	2445	26.982	8.794	50.239	1.00	18.23
ATOM	16302	CB	ASP	2445	27.330	7.359	49.806	1.00	20.29
ATOM	16303	CG	ASP	2445	28.573	6.810	50.478	1.00	22.01
ATOM	16304	OD1	ASP	2445	29.074	7.424	51.443	1.00	22.09
ATOM	16305	OD2	ASP	2445	29.039	5.741	50.030	1.00	23.26
ATOM	16306	C	ASP	2445	26.531	8.835	51.693	1.00	17.90
ATOM	16307	O	ASP	2445	25.646	8.079	52.095	1.00	12.82
ATOM	16308	N	SER	2446	27.136	9.717	52.493	1.00	16.02
ATOM	16309	CA	SER	2446	26.710	9.842	53.884	1.00	14.42
ATOM	16310	CB	SER	2446	27.556	10.877	54.632	1.00	17.31
ATOM	16311	OG	SER	2446	27.690	12.075	53.886	1.00	19.20
ATOM	16312	C	SER	2446	25.260	10.294	53.838	1.00	13.92
ATOM	16313	O	SER	2446	24.510	10.114	54.799	1.00	15.62
ATOM	16314	N	LEU	2447	24.879	10.885	52.706	1.00	13.83
ATOM	16315	CA	LEU	2447	23.511	11.366	52.490	1.00	15.03
ATOM	16316	CB	LEU	2447	23.383	12.005	51.095	1.00	13.29
ATOM	16317	CG	LEU	2447	23.435	11.139	49.828	1.00	14.14
ATOM	16318	CD1	LEU	2447	22.038	10.529	49.557	1.00	14.78
ATOM	16319	CD2	LEU	2447	23.856	11.983	48.647	1.00	14.51
ATOM	16320	C	LEU	2447	22.505	10.232	52.636	1.00	16.55
ATOM	16321	O	LEU	2447	21.325	10.464	52.923	1.00	16.84
ATOM	16322	N	GLY	2448	22.974	9.003	52.433	1.00	14.34
ATOM	16323	CA	GLY	2448	22.092	7.856	52.549	1.00	16.03
ATOM	16324	C	GLY	2448	21.544	7.753	53.952	1.00	16.17
ATOM	16325	O	GLY	2448	20.468	7.212	54.170	1.00	14.30
ATOM	16326	N	MET	2449	22.290	8.287	54.910	1.00	16.60
ATOM	16327	CA	MET	2449	21.872	8.245	56.292	1.00	16.34
ATOM	16328	CB	MET	2449	23.056	7.814	57.157	1.00	19.82
ATOM	16329	CG	MET	2449	23.644	6.484	56.710	1.00	21.64
ATOM	16330	SD	MET	2449	24.990	5.908	57.750	1.00	24.22
ATOM	16331	CE	MET	2449	24.077	5.356	59.175	1.00	25.30
ATOM	16332	C	MET	2449	21.337	9.602	56.739	1.00	17.00
ATOM	16333	O	MET	2449	20.194	9.710	57.177	1.00	17.40
ATOM	16334	N	THR	2450	22.158	10.636	56.599	1.00	16.35
ATOM	16335	CA	THR	2450	21.774	11.980	57.007	1.00	18.67
ATOM	16336	CB	THR	2450	22.988	12.932	56.910	1.00	20.10
ATOM	16337	OG1	THR	2450	22.658	14.201	57.489	1.00	27.83
ATOM	16338	CG2	THR	2450	23.394	13.137	55.468	1.00	22.03
ATOM	16339	C	THR	2450	20.588	12.575	56.235	1.00	18.18
ATOM	16340	O	THR	2450	19.764	13.287	56.808	1.00	16.73
ATOM	16341	N	VAL	2451	20.487	12.277	54.943	1.00	16.56
ATOM	16342	CA	VAL	2451	19.388	12.809	54.138	1.00	15.70
ATOM	16343	CB	VAL	2451	19.904	13.319	52.771	1.00	16.21
ATOM	16344	CG1	VAL	2451	18.737	13.687	51.857	1.00	18.82
ATOM	16345	CG2	VAL	2451	20.794	14.531	52.983	1.00	18.81
ATOM	16346	C	VAL	2451	18.245	11.820	53.906	1.00	15.14
ATOM	16347	O	VAL	2451	17.073	12.131	54.168	1.00	13.37
ATOM	16348	N	GLN	2452	18.580	10.631	53.415	1.00	14.84
ATOM	16349	CA	GLN	2452	17.573	9.605	53.135	1.00	15.81
ATOM	16350	CB	GLN	2452	18.130	8.588	52.137	1.00	11.46
ATOM	16351	CG	GLN	2452	18.666	9.217	50.868	1.00	14.21
ATOM	16352	CD	GLN	2452	19.187	8.181	49.893	1.00	10.70

ATOM	16353	OE1	GLN	2452	19.456	7.044	50.279	1.00	14.39
ATOM	16354	NE2	GLN	2452	19.335	8.568	48.627	1.00	12.31
ATOM	16355	C	GLN	2452	17.071	8.883	54.376	1.00	15.31
ATOM	16356	O	GLN	2452	15.931	8.424	54.412	1.00	16.95
ATOM	16357	N	GLY	2453	17.919	8.760	55.392	1.00	16.51
ATOM	16358	CA	GLY	2453	17.480	8.111	56.619	1.00	17.32
ATOM	16359	C	GLY	2453	17.695	6.616	56.735	1.00	16.27
ATOM	16360	O	GLY	2453	17.069	5.961	57.567	1.00	15.67
ATOM	16361	N	HIS	2454	18.576	6.070	55.903	1.00	17.26
ATOM	16362	CA	HIS	2454	18.878	4.638	55.945	1.00	16.67
ATOM	16363	CB	HIS	2454	19.485	4.188	54.616	1.00	16.80
ATOM	16364	CG	HIS	2454	18.521	4.210	53.477	1.00	17.61
ATOM	16365	CD2	HIS	2454	18.472	4.977	52.363	1.00	17.85
ATOM	16366	ND1	HIS	2454	17.454	3.344	53.396	1.00	16.86
ATOM	16367	CE1	HIS	2454	16.790	3.573	52.278	1.00	19.45
ATOM	16368	NE2	HIS	2454	17.387	4.559	51.633	1.00	18.52
ATOM	16369	C	HIS	2454	19.873	4.349	57.062	1.00	17.34
ATOM	16370	O	HIS	2454	20.558	5.255	57.533	1.00	18.36
ATOM	16371	N	ASP	2455	19.945	3.084	57.475	1.00	18.16
ATOM	16372	CA	ASP	2455	20.858	2.646	58.531	1.00	21.37
ATOM	16373	CB	ASP	2455	20.435	1.270	59.074	1.00	25.85
ATOM	16374	CG	ASP	2455	20.380	0.193	57.991	1.00	30.92
ATOM	16375	OD1	ASP	2455	21.371	0.020	57.251	1.00	33.11
ATOM	16376	OD2	ASP	2455	19.344	-0.496	57.883	1.00	35.21
ATOM	16377	C	ASP	2455	22.315	2.561	58.061	1.00	20.40
ATOM	16378	O	ASP	2455	23.214	2.291	58.857	1.00	22.38
ATOM	16379	N	SER	2456	22.542	2.782	56.775	1.00	19.74
ATOM	16380	CA	SER	2456	23.885	2.725	56.216	1.00	19.12
ATOM	16381	CB	SER	2456	24.308	1.266	55.985	1.00	20.10
ATOM	16382	OG	SER	2456	23.643	0.697	54.870	1.00	21.89
ATOM	16383	C	SER	2456	23.918	3.497	54.905	1.00	17.48
ATOM	16384	O	SER	2456	22.893	3.985	54.440	1.00	17.06
ATOM	16385	N	THR	2457	25.101	3.616	54.312	1.00	14.78
ATOM	16386	CA	THR	2457	25.245	4.342	53.057	1.00	13.35
ATOM	16387	CB	THR	2457	26.641	4.990	52.951	1.00	14.64
ATOM	16388	OG1	THR	2457	27.623	3.973	52.751	1.00	14.31
ATOM	16389	CG2	THR	2457	26.984	5.744	54.237	1.00	15.15
ATOM	16390	C	THR	2457	25.050	3.469	51.816	1.00	12.59
ATOM	16391	O	THR	2457	24.984	3.980	50.700	1.00	14.58
ATOM	16392	N	LEU	2458	24.977	2.158	52.008	1.00	13.46
ATOM	16393	CA	LEU	2458	24.836	1.230	50.880	1.00	15.15
ATOM	16394	CB	LEU	2458	24.789	-0.210	51.399	1.00	16.30
ATOM	16395	CG	LEU	2458	26.150	-0.857	51.711	1.00	18.84
ATOM	16396	CD1	LEU	2458	26.834	-0.141	52.881	1.00	18.45
ATOM	16397	CD2	LEU	2458	25.933	-2.323	52.036	1.00	19.18
ATOM	16398	C	LEU	2458	23.682	1.454	49.894	1.00	16.48
ATOM	16399	O	LEU	2458	23.853	1.265	48.690	1.00	16.20
ATOM	16400	N	PRO	2459	22.496	1.843	50.388	1.00	17.41
ATOM	16401	CD	PRO	2459	22.096	1.948	51.801	1.00	17.56
ATOM	16402	CA	PRO	2459	21.352	2.073	49.494	1.00	16.65
ATOM	16403	CB	PRO	2459	20.189	2.296	50.468	1.00	19.49
ATOM	16404	CG	PRO	2459	20.870	2.806	51.710	1.00	23.52
ATOM	16405	C	PRO	2459	21.524	3.224	48.504	1.00	16.06
ATOM	16406	O	PRO	2459	20.800	3.311	47.511	1.00	13.44
ATOM	16407	N	VAL	2460	22.486	4.105	48.766	1.00	13.48
ATOM	16408	CA	VAL	2460	22.725	5.239	47.882	1.00	14.40
ATOM	16409	CB	VAL	2460	23.795	6.192	48.450	1.00	14.61
ATOM	16410	CG1	VAL	2460	24.065	7.299	47.458	1.00	14.36
ATOM	16411	CG2	VAL	2460	23.329	6.762	49.780	1.00	13.84
ATOM	16412	C	VAL	2460	23.201	4.789	46.511	1.00	15.33
ATOM	16413	O	VAL	2460	24.202	4.080	46.397	1.00	14.73
ATOM	16414	N	THR	2461	22.495	5.195	45.466	1.00	16.85
ATOM	16415	CA	THR	2461	22.921	4.803	44.139	1.00	19.10
ATOM	16416	CB	THR	2461	21.798	3.984	43.403	1.00	24.26
ATOM	16417	OG1	THR	2461	20.513	4.292	43.952	1.00	25.02
ATOM	16418	CG2	THR	2461	22.022	2.478	43.616	1.00	25.84
ATOM	16419	C	THR	2461	23.450	6.011	43.351	1.00	18.53
ATOM	16420	O	THR	2461	23.338	7.153	43.802	1.00	17.30
ATOM	16421	N	VAL	2462	24.074	5.758	42.207	1.00	16.22
ATOM	16422	CA	VAL	2462	24.651	6.823	41.392	1.00	16.40
ATOM	16423	CB	VAL	2462	25.214	6.253	40.072	1.00	15.77
ATOM	16424	CG1	VAL	2462	25.794	7.369	39.219	1.00	15.65
ATOM	16425	CG2	VAL	2462	26.275	5.213	40.385	1.00	18.55
ATOM	16426	C	VAL	2462	23.679	7.951	41.057	1.00	16.36
ATOM	16427	O	VAL	2462	24.061	9.127	41.020	1.00	16.32
ATOM	16428	N	ALA	2463	22.425	7.594	40.804	1.00	14.77
ATOM	16429	CA	ALA	2463	21.417	8.586	40.475	1.00	15.24

ATOM	16430	CB	ALA	2463	20.100	7.900	40.118	1.00	17.40
ATOM	16431	C	ALA	2463	21.211	9.540	41.647	1.00	15.53
ATOM	16432	O	ALA	2463	20.998	10.737	41.448	1.00	17.50
ATOM	16433	N	ASP	2464	21.260	9.009	42.864	1.00	15.85
ATOM	16434	CA	ASP	2464	21.096	9.837	44.051	1.00	15.44
ATOM	16435	CB	ASP	2464	21.161	8.999	45.338	1.00	15.36
ATOM	16436	CG	ASP	2464	19.964	8.076	45.514	1.00	16.71
ATOM	16437	OD1	ASP	2464	18.885	8.353	44.930	1.00	13.53
ATOM	16438	OD2	ASP	2464	20.110	7.088	46.266	1.00	15.10
ATOM	16439	C	ASP	2464	22.229	10.859	44.078	1.00	15.31
ATOM	16440	O	ASP	2464	22.000	12.058	44.249	1.00	14.61
ATOM	16441	N	ILE	2465	23.460	10.384	43.910	1.00	14.73
ATOM	16442	CA	ILE	2465	24.613	11.283	43.928	1.00	14.21
ATOM	16443	CB	ILE	2465	25.937	10.504	43.708	1.00	14.08
ATOM	16444	CG2	ILE	2465	27.104	11.484	43.609	1.00	12.92
ATOM	16445	CG1	ILE	2465	26.159	9.511	44.861	1.00	11.78
ATOM	16446	CD1	ILE	2465	26.437	10.163	46.224	1.00	16.30
ATOM	16447	C	ILE	2465	24.482	12.377	42.867	1.00	14.68
ATOM	16448	O	ILE	2465	24.675	13.556	43.159	1.00	15.78
ATOM	16449	N	ALA	2466	24.137	11.995	41.642	1.00	13.89
ATOM	16450	CA	ALA	2466	23.993	12.960	40.551	1.00	14.00
ATOM	16451	CB	ALA	2466	23.631	12.229	39.246	1.00	13.36
ATOM	16452	C	ALA	2466	22.942	14.027	40.849	1.00	14.38
ATOM	16453	O	ALA	2466	23.082	15.179	40.445	1.00	16.13
ATOM	16454	N	TYR	2467	21.871	13.620	41.518	1.00	15.16
ATOM	16455	CA	TYR	2467	20.792	14.527	41.874	1.00	14.44
ATOM	16456	CB	TYR	2467	19.660	13.744	42.536	1.00	15.27
ATOM	16457	CG	TYR	2467	18.537	14.592	43.094	1.00	16.93
ATOM	16458	CD1	TYR	2467	17.661	15.271	42.252	1.00	17.28
ATOM	16459	CE1	TYR	2467	16.603	16.016	42.765	1.00	17.30
ATOM	16460	CD2	TYR	2467	18.331	14.680	44.471	1.00	17.80
ATOM	16461	CE2	TYR	2467	17.281	15.419	45.000	1.00	17.99
ATOM	16462	CZ	TYR	2467	16.415	16.084	44.143	1.00	19.01
ATOM	16463	OH	TYR	2467	15.355	16.787	44.665	1.00	16.68
ATOM	16464	C	TYR	2467	21.293	15.606	42.833	1.00	12.99
ATOM	16465	O	TYR	2467	21.094	16.799	42.605	1.00	14.73
ATOM	16466	N	HIS	2468	21.942	15.180	43.905	1.00	13.09
ATOM	16467	CA	HIS	2468	22.450	16.117	44.897	1.00	14.34
ATOM	16468	CB	HIS	2468	22.822	15.360	46.174	1.00	13.15
ATOM	16469	CG	HIS	2468	21.632	14.846	46.924	1.00	17.11
ATOM	16470	CD2	HIS	2468	21.090	13.606	46.999	1.00	17.53
ATOM	16471	ND1	HIS	2468	20.797	15.671	47.649	1.00	15.01
ATOM	16472	CE1	HIS	2468	19.792	14.963	48.134	1.00	17.40
ATOM	16473	NE2	HIS	2468	19.945	13.707	47.753	1.00	18.53
ATOM	16474	C	HIS	2468	23.626	16.936	44.378	1.00	15.33
ATOM	16475	O	HIS	2468	23.834	18.069	44.803	1.00	14.82
ATOM	16476	N	THR	2469	24.391	16.366	43.452	1.00	15.33
ATOM	16477	CA	THR	2469	25.527	17.073	42.873	1.00	16.60
ATOM	16478	CB	THR	2469	26.348	16.132	41.968	1.00	16.20
ATOM	16479	OG1	THR	2469	27.046	15.184	42.785	1.00	17.12
ATOM	16480	CG2	THR	2469	27.352	16.919	41.134	1.00	14.14
ATOM	16481	C	THR	2469	25.066	18.298	42.078	1.00	16.62
ATOM	16482	O	THR	2469	25.631	19.387	42.215	1.00	18.28
ATOM	16483	N	ALA	2470	24.034	18.122	41.256	1.00	17.01
ATOM	16484	CA	ALA	2470	23.508	19.222	40.461	1.00	16.73
ATOM	16485	CB	ALA	2470	22.383	18.726	39.549	1.00	18.75
ATOM	16486	C	ALA	2470	22.992	20.320	41.391	1.00	17.94
ATOM	16487	O	ALA	2470	23.185	21.505	41.125	1.00	18.99
ATOM	16488	N	ALA	2471	22.342	19.921	42.479	1.00	17.24
ATOM	16489	CA	ALA	2471	21.807	20.875	43.445	1.00	19.28
ATOM	16490	CB	ALA	2471	21.024	20.137	44.529	1.00	18.10
ATOM	16491	C	ALA	2471	22.921	21.705	44.083	1.00	20.30
ATOM	16492	O	ALA	2471	22.814	22.927	44.191	1.00	22.29
ATOM	16493	N	VAL	2472	23.987	21.036	44.510	1.00	21.49
ATOM	16494	CA	VAL	2472	25.126	21.708	45.144	1.00	20.58
ATOM	16495	CB	VAL	2472	26.149	20.670	45.669	1.00	20.42
ATOM	16496	CG1	VAL	2472	27.441	21.359	46.104	1.00	18.63
ATOM	16497	CG2	VAL	2472	25.543	19.901	46.832	1.00	17.07
ATOM	16498	C	VAL	2472	25.829	22.656	44.178	1.00	21.47
ATOM	16499	O	VAL	2472	26.220	23.763	44.552	1.00	20.66
ATOM	16500	N	ARG	2473	26.000	22.215	42.938	1.00	20.73
ATOM	16501	CA	ARG	2473	26.651	23.043	41.939	1.00	20.95
ATOM	16502	CB	ARG	2473	26.805	22.273	40.622	1.00	21.67
ATOM	16503	CG	ARG	2473	27.384	23.113	39.490	1.00	23.02
ATOM	16504	CD	ARG	2473	28.729	23.711	39.889	1.00	23.89
ATOM	16505	NE	ARG	2473	29.797	22.724	39.904	1.00	23.45
ATOM	16506	CZ	ARG	2473	30.932	22.858	40.584	1.00	26.20

ATOM	16507	NH1	ARG	2473	31.148	23.941	41.320	1.00	24.63
ATOM	16508	NH2	ARG	2473	31.864	21.915	40.515	1.00	21.81
ATOM	16509	C	ARG	2473	25.857	24.326	41.699	1.00	22.12
ATOM	16510	O	ARG	2473	26.437	25.398	41.529	1.00	23.41
ATOM	16511	N	ARG	2474	24.532	24.229	41.684	1.00	20.61
ATOM	16512	CA	ARG	2474	23.728	25.424	41.459	1.00	22.05
ATOM	16513	CB	ARG	2474	22.237	25.075	41.369	1.00	23.15
ATOM	16514	CG	ARG	2474	21.883	24.197	40.178	1.00	25.72
ATOM	16515	CD	ARG	2474	20.381	24.163	39.933	1.00	26.31
ATOM	16516	NE	ARG	2474	20.023	23.166	38.930	1.00	29.12
ATOM	16517	CZ	ARG	2474	19.951	21.859	39.159	1.00	30.89
ATOM	16518	NH1	ARG	2474	20.205	21.375	40.370	1.00	31.05
ATOM	16519	NH2	ARG	2474	19.638	21.030	38.168	1.00	29.85
ATOM	16520	C	ARG	2474	23.958	26.446	42.571	1.00	21.79
ATOM	16521	O	ARG	2474	23.888	27.651	42.337	1.00	19.95
ATOM	16522	N	GLY	2475	24.249	25.959	43.772	1.00	21.36
ATOM	16523	CA	GLY	2475	24.487	26.853	44.889	1.00	23.25
ATOM	16524	C	GLY	2475	25.922	27.337	44.982	1.00	23.98
ATOM	16525	O	GLY	2475	26.186	28.396	45.552	1.00	23.43
ATOM	16526	N	ALA	2476	26.849	26.568	44.418	1.00	23.91
ATOM	16527	CA	ALA	2476	28.264	26.920	44.447	1.00	25.38
ATOM	16528	CB	ALA	2476	28.948	26.219	45.616	1.00	25.54
ATOM	16529	C	ALA	2476	28.930	26.517	43.134	1.00	26.02
ATOM	16530	O	ALA	2476	29.616	25.498	43.066	1.00	27.80
ATOM	16531	N	PRO	2477	28.741	27.319	42.074	1.00	26.85
ATOM	16532	CD	PRO	2477	27.952	28.563	42.035	1.00	28.05
ATOM	16533	CA	PRO	2477	29.322	27.038	40.757	1.00	29.05
ATOM	16534	CB	PRO	2477	28.607	28.035	39.853	1.00	28.77
ATOM	16535	CG	PRO	2477	28.429	29.204	40.748	1.00	29.67
ATOM	16536	C	PRO	2477	30.839	27.159	40.664	1.00	29.31
ATOM	16537	O	PRO	2477	31.441	26.680	39.706	1.00	30.76
ATOM	16538	N	ASN	2478	31.453	27.788	41.661	1.00	30.39
ATOM	16539	CA	ASN	2478	32.897	27.974	41.655	1.00	29.62
ATOM	16540	CB	ASN	2478	33.229	29.453	41.881	1.00	30.92
ATOM	16541	CG	ASN	2478	32.571	30.360	40.858	1.00	31.62
ATOM	16542	OD1	ASN	2478	32.859	30.284	39.665	1.00	33.22
ATOM	16543	ND2	ASN	2478	31.667	31.215	41.322	1.00	34.26
ATOM	16544	C	ASN	2478	33.616	27.128	42.695	1.00	28.50
ATOM	16545	O	ASN	2478	34.828	27.231	42.842	1.00	29.41
ATOM	16546	N	CYS	2479	32.877	26.280	43.402	1.00	27.76
ATOM	16547	CA	CYS	2479	33.487	25.444	44.428	1.00	24.78
ATOM	16548	CB	CYS	2479	32.444	25.031	45.475	1.00	25.50
ATOM	16549	SG	CYS	2479	31.459	23.551	45.037	1.00	26.02
ATOM	16550	C	CYS	2479	34.122	24.188	43.845	1.00	24.27
ATOM	16551	O	CYS	2479	33.787	23.760	42.740	1.00	23.85
ATOM	16552	N	LEU	2480	35.065	23.616	44.589	1.00	22.97
ATOM	16553	CA	LEU	2480	35.697	22.375	44.175	1.00	22.48
ATOM	16554	CB	LEU	2480	37.062	22.189	44.852	1.00	22.33
ATOM	16555	CG	LEU	2480	37.763	20.855	44.584	1.00	23.00
ATOM	16556	CD1	LEU	2480	37.990	20.684	43.095	1.00	23.31
ATOM	16557	CD2	LEU	2480	39.087	20.787	45.335	1.00	22.05
ATOM	16558	C	LEU	2480	34.693	21.342	44.680	1.00	21.39
ATOM	16559	O	LEU	2480	34.571	21.114	45.884	1.00	20.80
ATOM	16560	N	LEU	2481	33.960	20.739	43.749	1.00	20.74
ATOM	16561	CA	LEU	2481	32.926	19.772	44.089	1.00	19.90
ATOM	16562	CB	LEU	2481	31.684	20.025	43.217	1.00	21.31
ATOM	16563	CG	LEU	2481	30.295	19.607	43.726	1.00	24.25
ATOM	16564	CD1	LEU	2481	29.231	20.182	42.806	1.00	24.77
ATOM	16565	CD2	LEU	2481	30.184	18.094	43.805	1.00	25.65
ATOM	16566	C	LEU	2481	33.384	18.328	43.931	1.00	20.50
ATOM	16567	O	LEU	2481	33.681	17.875	42.824	1.00	20.28
ATOM	16568	N	LEU	2482	33.451	17.613	45.046	1.00	19.62
ATOM	16569	CA	LEU	2482	33.844	16.211	45.030	1.00	19.59
ATOM	16570	CB	LEU	2482	34.776	15.889	46.198	1.00	19.36
ATOM	16571	CG	LEU	2482	36.249	16.304	46.107	1.00	21.46
ATOM	16572	CD1	LEU	2482	36.385	17.805	45.908	1.00	24.55
ATOM	16573	CD2	LEU	2482	36.947	15.854	47.372	1.00	19.98
ATOM	16574	C	LEU	2482	32.569	15.397	45.178	1.00	19.82
ATOM	16575	O	LEU	2482	31.701	15.752	45.972	1.00	21.78
ATOM	16576	N	ALA	2483	32.432	14.323	44.411	1.00	16.25
ATOM	16577	CA	ALA	2483	31.240	13.493	44.541	1.00	16.04
ATOM	16578	CB	ALA	2483	30.348	13.636	43.323	1.00	15.47
ATOM	16579	C	ALA	2483	31.678	12.051	44.714	1.00	14.99
ATOM	16580	O	ALA	2483	32.594	11.591	44.039	1.00	14.48
ATOM	16581	N	ASP	2484	31.033	11.346	45.636	1.00	14.00
ATOM	16582	CA	ASP	2484	31.363	9.952	45.907	1.00	16.62
ATOM	16583	CB	ASP	2484	30.819	9.508	47.265	1.00	18.12



ATOM	16584	CG	ASP	2484	31.751	9.800	48.420	1.00	21.09
ATOM	16585	OD1	ASP	2484	32.952	10.027	48.201	1.00	23.51
ATOM	16586	OD2	ASP	2484	31.259	9.765	49.567	1.00	25.92
ATOM	16587	C	ASP	2484	30.751	8.990	44.906	1.00	16.88
ATOM	16588	O	ASP	2484	29.679	9.252	44.362	1.00	17.02
ATOM	16589	N	LEU	2485	31.437	7.878	44.664	1.00	16.05
ATOM	16590	CA	LEU	2485	30.856	6.828	43.837	1.00	16.81
ATOM	16591	CB	LEU	2485	31.887	6.120	42.968	1.00	17.36
ATOM	16592	CG	LEU	2485	32.362	6.967	41.791	1.00	18.54
ATOM	16593	CD1	LEU	2485	33.158	6.088	40.829	1.00	19.06
ATOM	16594	CD2	LEU	2485	31.157	7.568	41.072	1.00	18.74
ATOM	16595	C	LEU	2485	30.367	5.900	44.936	1.00	15.90
ATOM	16596	O	LEU	2485	31.145	5.447	45.773	1.00	16.45
ATOM	16597	N	PRO	2486	29.057	5.638	44.970	1.00	17.02
ATOM	16598	CD	PRO	2486	28.055	6.209	44.052	1.00	16.98
ATOM	16599	CA	PRO	2486	28.427	4.777	45.968	1.00	15.60
ATOM	16600	CB	PRO	2486	26.937	5.042	45.750	1.00	15.78
ATOM	16601	CG	PRO	2486	26.860	5.312	44.276	1.00	16.02
ATOM	16602	C	PRO	2486	28.778	3.287	45.908	1.00	14.53
ATOM	16603	O	PRO	2486	29.499	2.822	45.025	1.00	14.20
ATOM	16604	N	PHE	2487	28.267	2.559	46.890	1.00	14.83
ATOM	16605	CA	PHE	2487	28.469	1.125	47.011	1.00	15.84
ATOM	16606	CB	PHE	2487	27.501	0.583	48.074	1.00	15.61
ATOM	16607	CG	PHE	2487	27.356	-0.919	48.083	1.00	17.92
ATOM	16608	CD1	PHE	2487	28.450	-1.746	48.328	1.00	16.77
ATOM	16609	CD2	PHE	2487	26.106	-1.504	47.874	1.00	15.14
ATOM	16610	CE1	PHE	2487	28.302	-3.131	48.369	1.00	18.81
ATOM	16611	CE2	PHE	2487	25.948	-2.887	47.913	1.00	18.55
ATOM	16612	CZ	PHE	2487	27.050	-3.706	48.160	1.00	17.93
ATOM	16613	C	PHE	2487	28.283	0.389	45.676	1.00	16.50
ATOM	16614	O	PHE	2487	27.257	0.535	45.007	1.00	15.22
ATOM	16615	N	MET	2488	29.297	-0.390	45.302	1.00	16.30
ATOM	16616	CA	MET	2488	29.305	-1.193	44.077	1.00	16.43
ATOM	16617	CB	MET	2488	28.265	-2.320	44.174	1.00	17.44
ATOM	16618	CG	MET	2488	28.596	-3.554	43.353	1.00	17.50
ATOM	16619	SD	MET	2488	30.158	-4.247	43.921	1.00	15.86
ATOM	16620	CE	MET	2488	29.646	-5.320	45.243	1.00	15.24
ATOM	16621	C	MET	2488	29.084	-0.384	42.804	1.00	18.13
ATOM	16622	O	MET	2488	28.516	-0.882	41.827	1.00	17.92
ATOM	16623	N	ALA	2489	29.547	0.862	42.810	1.00	15.73
ATOM	16624	CA	ALA	2489	29.417	1.732	41.643	1.00	16.90
ATOM	16625	CB	ALA	2489	28.963	3.133	42.074	1.00	15.45
ATOM	16626	C	ALA	2489	30.750	1.807	40.891	1.00	14.87
ATOM	16627	O	ALA	2489	30.887	2.539	39.916	1.00	16.09
ATOM	16628	N	TYR	2490	31.731	1.040	41.352	1.00	16.77
ATOM	16629	CA	TYR	2490	33.043	1.000	40.705	1.00	16.61
ATOM	16630	CB	TYR	2490	33.978	2.071	41.293	1.00	17.08
ATOM	16631	CG	TYR	2490	34.015	2.131	42.812	1.00	19.16
ATOM	16632	CD1	TYR	2490	35.039	1.521	43.538	1.00	18.38
ATOM	16633	CE1	TYR	2490	35.062	1.572	44.939	1.00	18.54
ATOM	16634	CD2	TYR	2490	33.011	2.795	43.519	1.00	20.42
ATOM	16635	CE2	TYR	2490	33.017	2.855	44.907	1.00	20.22
ATOM	16636	CZ	TYR	2490	34.042	2.244	45.613	1.00	21.20
ATOM	16637	OH	TYR	2490	34.038	2.326	46.990	1.00	19.10
ATOM	16638	C	TYR	2490	33.652	-0.390	40.875	1.00	16.36
ATOM	16639	O	TYR	2490	34.842	-0.532	41.154	1.00	15.49
ATOM	16640	N	ALA	2491	32.821	-1.413	40.687	1.00	15.34
ATOM	16641	CA	ALA	2491	33.240	-2.806	40.845	1.00	16.21
ATOM	16642	CB	ALA	2491	32.016	-3.716	40.865	1.00	16.00
ATOM	16643	C	ALA	2491	34.218	-3.256	39.765	1.00	16.41
ATOM	16644	O	ALA	2491	34.948	-4.229	39.945	1.00	16.54
ATOM	16645	N	THR	2492	34.196	-2.571	38.631	1.00	16.89
ATOM	16646	CA	THR	2492	35.127	-2.863	37.544	1.00	18.84
ATOM	16647	CB	THR	2492	34.507	-3.747	36.423	1.00	17.42
ATOM	16648	OG1	THR	2492	33.628	-2.948	35.619	1.00	19.01
ATOM	16649	CG2	THR	2492	33.753	-4.919	37.015	1.00	16.56
ATOM	16650	C	THR	2492	35.476	-1.517	36.939	1.00	19.20
ATOM	16651	O	THR	2492	34.705	-0.563	37.040	1.00	17.78
ATOM	16652	N	PRO	2493	36.655	-1.416	36.316	1.00	20.58
ATOM	16653	CD	PRO	2493	37.710	-2.440	36.217	1.00	22.28
ATOM	16654	CA	PRO	2493	37.080	-0.163	35.696	1.00	21.26
ATOM	16655	CB	PRO	2493	38.359	-0.561	34.968	1.00	22.19
ATOM	16656	CG	PRO	2493	38.925	-1.615	35.861	1.00	22.73
ATOM	16657	C	PRO	2493	36.031	0.379	34.737	1.00	21.17
ATOM	16658	O	PRO	2493	35.718	1.567	34.752	1.00	20.07
ATOM	16659	N	GLU	2494	35.477	-0.497	33.906	1.00	21.51
ATOM	16660	CA	GLU	2494	34.485	-0.062	32.934	1.00	22.98

ATOM	16661	CB	GLU	2494	34.027	-1.249	32.078	1.00	27.93
ATOM	16662	CG	GLU	2494	33.193	-0.865	30.862	1.00	35.30
ATOM	16663	CD	GLU	2494	33.127	-1.979	29.825	1.00	39.26
ATOM	16664	OE1	GLU	2494	32.813	-3.129	30.207	1.00	40.58
ATOM	16665	OE2	GLU	2494	33.381	-1.701	28.629	1.00	41.62
ATOM	16666	C	GLU	2494	33.296	0.596	33.629	1.00	21.02
ATOM	16667	O	GLU	2494	32.867	1.674	33.236	1.00	20.30
ATOM	16668	N	GLN	2495	32.768	-0.043	34.663	1.00	19.92
ATOM	16669	CA	GLN	2495	31.638	0.536	35.377	1.00	21.90
ATOM	16670	CB	GLN	2495	31.103	-0.446	36.411	1.00	25.01
ATOM	16671	CG	GLN	2495	30.627	-1.747	35.803	1.00	32.47
ATOM	16672	CD	GLN	2495	29.946	-2.626	36.814	1.00	34.62
ATOM	16673	OE1	GLN	2495	28.836	-2.332	37.259	1.00	37.69
ATOM	16674	NE2	GLN	2495	30.614	-3.707	37.202	1.00	39.43
ATOM	16675	C	GLN	2495	32.044	1.835	36.056	1.00	18.71
ATOM	16676	O	GLN	2495	31.269	2.788	36.101	1.00	16.24
ATOM	16677	N	ALA	2496	33.263	1.870	36.583	1.00	18.87
ATOM	16678	CA	ALA	2496	33.756	3.073	37.236	1.00	18.29
ATOM	16679	CB	ALA	2496	35.161	2.842	37.789	1.00	19.37
ATOM	16680	C	ALA	2496	33.758	4.249	36.258	1.00	17.83
ATOM	16681	O	ALA	2496	33.373	5.355	36.626	1.00	17.54
ATOM	16682	N	PHE	2497	34.181	4.018	35.014	1.00	17.22
ATOM	16683	CA	PHE	2497	34.215	5.104	34.033	1.00	16.32
ATOM	16684	CB	PHE	2497	34.777	4.639	32.680	1.00	15.77
ATOM	16685	CG	PHE	2497	36.109	3.944	32.763	1.00	16.08
ATOM	16686	CD1	PHE	2497	37.023	4.262	33.763	1.00	17.05
ATOM	16687	CD2	PHE	2497	36.453	2.976	31.822	1.00	19.05
ATOM	16688	CE1	PHE	2497	38.264	3.626	33.831	1.00	18.78
ATOM	16689	CE2	PHE	2497	37.686	2.334	31.876	1.00	18.30
ATOM	16690	CZ	PHE	2497	38.594	2.660	32.885	1.00	19.48
ATOM	16691	O	PHE	2497	32.817	5.659	33.796	1.00	16.99
ATOM	16692	O	PHE	2497	32.616	6.872	33.761	1.00	15.02
ATOM	16693	N	GLU	2498	31.860	4.753	33.624	1.00	17.61
ATOM	16694	CA	GLU	2498	30.474	5.121	33.364	1.00	19.06
ATOM	16695	CB	GLU	2498	29.635	3.854	33.162	1.00	22.66
ATOM	16696	CG	GLU	2498	28.212	4.090	32.676	1.00	28.82
ATOM	16697	CD	GLU	2498	28.165	4.785	31.322	1.00	33.26
ATOM	16698	OE1	GLU	2498	29.130	4.638	30.536	1.00	33.89
ATOM	16699	OE2	GLU	2498	27.156	5.469	31.038	1.00	35.72
ATOM	16700	C	GLU	2498	29.880	5.947	34.499	1.00	18.47
ATOM	16701	O	GLU	2498	29.368	7.049	34.281	1.00	19.38
ATOM	16702	N	ASN	2499	29.954	5.413	35.711	1.00	18.25
ATOM	16703	CA	ASN	2499	29.392	6.105	36.869	1.00	19.15
ATOM	16704	CB	ASN	2499	29.335	5.157	38.070	1.00	19.68
ATOM	16705	CG	ASN	2499	28.385	3.997	37.839	1.00	19.41
ATOM	16706	OD1	ASN	2499	27.309	4.178	37.269	1.00	21.49
ATOM	16707	ND2	ASN	2499	28.767	2.811	38.283	1.00	18.16
ATOM	16708	C	ASN	2499	30.125	7.397	37.225	1.00	19.51
ATOM	16709	O	ASN	2499	29.513	8.347	37.723	1.00	18.86
ATOM	16710	N	ALA	2500	31.429	7.440	36.965	1.00	20.06
ATOM	16711	CA	ALA	2500	32.207	8.641	37.239	1.00	19.16
ATOM	16712	CB	ALA	2500	33.694	8.367	37.043	1.00	19.94
ATOM	16713	C	ALA	2500	31.748	9.734	36.284	1.00	19.10
ATOM	16714	O	ALA	2500	31.472	10.858	36.695	1.00	18.94
ATOM	16715	N	ALA	2501	31.652	9.389	35.004	1.00	17.77
ATOM	16716	CA	ALA	2501	31.229	10.339	33.991	1.00	16.26
ATOM	16717	CB	ALA	2501	31.220	9.670	32.608	1.00	16.19
ATOM	16718	C	ALA	2501	29.850	10.905	34.303	1.00	15.89
ATOM	16719	O	ALA	2501	29.592	12.070	34.028	1.00	18.58
ATOM	16720	N	THR	2502	28.963	10.081	34.862	1.00	16.35
ATOM	16721	CA	THR	2502	27.605	10.524	35.200	1.00	16.80
ATOM	16722	CB	THR	2502	26.731	9.356	35.721	1.00	18.71
ATOM	16723	OG1	THR	2502	26.565	8.386	34.685	1.00	18.62
ATOM	16724	CG2	THR	2502	25.358	9.859	36.148	1.00	18.69
ATOM	16725	C	THR	2502	27.629	11.594	36.281	1.00	16.73
ATOM	16726	O	THR	2502	26.919	12.592	36.204	1.00	16.10
ATOM	16727	N	VAL	2503	28.441	11.355	37.301	1.00	16.73
ATOM	16728	CA	VAL	2503	28.582	12.280	38.416	1.00	19.12
ATOM	16729	CB	VAL	2503	29.336	11.588	39.565	1.00	21.79
ATOM	16730	CG1	VAL	2503	29.985	12.604	40.454	1.00	26.41
ATOM	16731	CG2	VAL	2503	28.365	10.712	40.355	1.00	18.83
ATOM	16732	C	VAL	2503	29.321	13.541	37.962	1.00	18.67
ATOM	16733	O	VAL	2503	29.040	14.649	38.435	1.00	18.94
ATOM	16734	N	MET	2504	30.260	13.362	37.037	1.00	18.34
ATOM	16735	CA	MET	2504	31.026	14.471	36.495	1.00	19.37
ATOM	16736	CB	MET	2504	32.211	13.958	35.669	1.00	22.55
ATOM	16737	CG	MET	2504	33.240	13.157	36.459	1.00	26.75

ATOM	16738	SD	MET	2504	34.195	14.200	37.555	1.00	33.58
ATOM	16739	CE	MET	2504	35.397	14.833	36.400	1.00	29.91
ATOM	16740	C	MET	2504	30.138	15.357	35.623	1.00	19.08
ATOM	16741	O	MET	2504	30.170	16.573	35.755	1.00	16.51
ATOM	16742	N	ARG	2505	29.341	14.757	34.738	1.00	18.93
ATOM	16743	CA	ARG	2505	28.476	15.553	33.883	1.00	19.02
ATOM	16744	CB	ARG	2505	27.748	14.672	32.853	1.00	19.49
ATOM	16745	CG	ARG	2505	28.673	13.917	31.888	1.00	22.49
ATOM	16746	CD	ARG	2505	27.903	13.299	30.717	1.00	23.75
ATOM	16747	NE	ARG	2505	28.708	12.314	29.985	1.00	25.72
ATOM	16748	CZ	ARG	2505	28.734	11.015	30.268	1.00	24.59
ATOM	16749	NH1	ARG	2505	27.997	10.536	31.261	1.00	22.81
ATOM	16750	NH2	ARG	2505	29.505	10.197	29.569	1.00	26.75
ATOM	16751	C	ARG	2505	27.451	16.298	34.728	1.00	17.69
ATOM	16752	O	ARG	2505	26.955	17.351	34.327	1.00	18.42
ATOM	16753	N	ALA	2506	27.145	15.755	35.902	1.00	17.09
ATOM	16754	CA	ALA	2506	26.164	16.363	36.800	1.00	18.48
ATOM	16755	CB	ALA	2506	25.652	15.325	37.797	1.00	17.12
ATOM	16756	C	ALA	2506	26.713	17.580	37.551	1.00	18.29
ATOM	16757	O	ALA	2506	25.957	18.298	38.208	1.00	18.33
ATOM	16758	N	GLY	2507	28.020	17.807	37.448	1.00	18.55
ATOM	16759	CA	GLY	2507	28.622	18.958	38.098	1.00	19.92
ATOM	16760	C	GLY	2507	29.863	18.732	38.943	1.00	20.81
ATOM	16761	O	GLY	2507	30.537	19.694	39.333	1.00	20.95
ATOM	16762	N	ALA	2508	30.183	17.478	39.238	1.00	20.50
ATOM	16763	CA	ALA	2508	31.354	17.193	40.062	1.00	19.08
ATOM	16764	CB	ALA	2508	31.328	15.748	40.526	1.00	18.45
ATOM	16765	C	ALA	2508	32.669	17.482	39.348	1.00	19.05
ATOM	16766	O	ALA	2508	32.776	17.332	38.134	1.00	18.04
ATOM	16767	N	ASN	2509	33.675	17.899	40.109	1.00	19.09
ATOM	16768	CA	ASN	2509	34.981	18.184	39.529	1.00	18.59
ATOM	16769	CB	ASN	2509	35.627	19.405	40.186	1.00	20.73
ATOM	16770	CG	ASN	2509	34.883	20.679	39.903	1.00	18.72
ATOM	16771	OD1	ASN	2509	34.720	21.074	38.748	1.00	17.99
ATOM	16772	ND2	ASN	2509	34.424	21.338	40.957	1.00	18.40
ATOM	16773	C	ASN	2509	35.905	17.000	39.756	1.00	19.28
ATOM	16774	O	ASN	2509	36.841	16.777	38.992	1.00	18.91
ATOM	16775	N	MET	2510	35.626	16.246	40.812	1.00	17.99
ATOM	16776	CA	MET	2510	36.448	15.115	41.203	1.00	19.45
ATOM	16777	CB	MET	2510	37.466	15.577	42.251	1.00	18.97
ATOM	16778	CG	MET	2510	38.433	14.524	42.759	1.00	23.50
ATOM	16779	SD	MET	2510	39.624	15.270	43.945	1.00	23.85
ATOM	16780	CE	MET	2510	41.036	15.618	42.863	1.00	24.62
ATOM	16781	C	MET	2510	35.576	14.020	41.784	1.00	20.19
ATOM	16782	O	MET	2510	34.505	14.289	42.327	1.00	18.96
ATOM	16783	N	VAL	2511	36.047	12.783	41.665	1.00	21.32
ATOM	16784	CA	VAL	2511	35.321	11.626	42.156	1.00	20.08
ATOM	16785	CB	VAL	2511	35.189	10.586	41.023	1.00	23.58
ATOM	16786	CG1	VAL	2511	34.622	9.304	41.560	1.00	26.75
ATOM	16787	CG2	VAL	2511	34.316	11.146	39.908	1.00	23.78
ATOM	16788	C	VAL	2511	36.035	10.991	43.347	1.00	19.91
ATOM	16789	O	VAL	2511	37.267	10.916	43.369	1.00	18.34
ATOM	16790	N	LYS	2512	35.268	10.547	44.340	1.00	17.54
ATOM	16791	CA	LYS	2512	35.850	9.902	45.513	1.00	18.90
ATOM	16792	CB	LYS	2512	35.473	10.648	46.803	1.00	19.77
ATOM	16793	CG	LYS	2512	36.064	9.979	48.044	1.00	21.40
ATOM	16794	CD	LYS	2512	36.198	10.915	49.233	1.00	23.09
ATOM	16795	CE	LYS	2512	34.908	11.031	50.024	1.00	23.73
ATOM	16796	NZ	LYS	2512	34.461	9.709	50.567	1.00	21.38
ATOM	16797	C	LYS	2512	35.407	8.442	45.620	1.00	19.54
ATOM	16798	O	LYS	2512	34.219	8.137	45.525	1.00	20.01
ATOM	16799	N	ILE	2513	36.370	7.545	45.817	1.00	17.93
ATOM	16800	CA	ILE	2513	36.085	6.117	45.923	1.00	17.40
ATOM	16801	CB	ILE	2513	36.447	5.384	44.607	1.00	17.97
ATOM	16802	CG2	ILE	2513	35.518	5.836	43.489	1.00	17.02
ATOM	16803	CG1	ILE	2513	37.896	5.694	44.213	1.00	18.73
ATOM	16804	CD1	ILE	2513	38.353	4.974	42.946	1.00	18.72
ATOM	16805	C	ILE	2513	36.849	5.491	47.084	1.00	18.41
ATOM	16806	O	ILE	2513	37.994	5.858	47.353	1.00	18.45
ATOM	16807	N	GLU	2514	36.204	4.548	47.765	1.00	18.60
ATOM	16808	CA	GLU	2514	36.776	3.861	48.922	1.00	18.49
ATOM	16809	CB	GLU	2514	35.662	3.542	49.925	1.00	19.81
ATOM	16810	CG	GLU	2514	34.827	4.743	50.360	1.00	20.46
ATOM	16811	CD	GLU	2514	33.621	4.347	51.222	1.00	23.36
ATOM	16812	OE1	GLU	2514	33.542	3.176	51.644	1.00	22.24
ATOM	16813	OE2	GLU	2514	32.760	5.212	51.484	1.00	23.56
ATOM	16814	C	GLU	2514	37.512	2.566	48.571	1.00	19.66

ATOM	16815	O	GLU	2514	37.045	1.777	47.755	1.00	18.14
ATOM	16816	N	GLY	2515	38.665	2.339	49.189	1.00	20.64
ATOM	16817	CA	GLY	2515	39.389	1.117	48.896	1.00	20.29
ATOM	16818	C	GLY	2515	40.890	1.288	48.808	1.00	19.74
ATOM	16819	O	GLY	2515	41.393	2.371	48.501	1.00	18.88
ATOM	16820	N	GLY	2516	41.602	0.198	49.065	1.00	19.47
ATOM	16821	CA	GLY	2516	43.052	0.224	49.033	1.00	18.59
ATOM	16822	C	GLY	2516	43.687	-0.132	47.703	1.00	18.48
ATOM	16823	O	GLY	2516	43.242	0.303	46.639	1.00	17.54
ATOM	16824	N	GLU	2517	44.725	-0.955	47.769	1.00	20.76
ATOM	16825	CA	GLU	2517	45.467	-1.341	46.580	1.00	23.29
ATOM	16826	CB	GLU	2517	46.637	-2.242	46.974	1.00	27.23
ATOM	16827	CG	GLU	2517	47.689	-2.380	45.888	1.00	32.03
ATOM	16828	CD	GLU	2517	48.937	-3.090	46.367	1.00	36.09
ATOM	16829	OE1	GLU	2517	49.853	-3.300	45.539	1.00	38.84
ATOM	16830	OE2	GLU	2517	49.005	-3.435	47.569	1.00	37.39
ATOM	16831	C	GLU	2517	44.676	-1.992	45.445	1.00	23.15
ATOM	16832	O	GLU	2517	45.079	-1.892	44.286	1.00	22.58
ATOM	16833	N	TRP	2518	43.560	-2.652	45.749	1.00	22.67
ATOM	16834	CA	TRP	2518	42.791	-3.292	44.682	1.00	23.53
ATOM	16835	CB	TRP	2518	41.619	-4.120	45.244	1.00	24.36
ATOM	16836	CG	TRP	2518	40.473	-3.335	45.824	1.00	24.10
ATOM	16837	CD2	TRP	2518	39.271	-2.943	45.143	1.00	23.30
ATOM	16838	CE2	TRP	2518	38.466	-2.252	46.078	1.00	23.70
ATOM	16839	CE3	TRP	2518	38.797	-3.108	43.837	1.00	22.85
ATOM	16840	CD1	TRP	2518	40.352	-2.874	47.107	1.00	25.21
ATOM	16841	NE1	TRP	2518	39.147	-2.226	47.266	1.00	24.49
ATOM	16842	CZ2	TRP	2518	37.209	-1.726	45.745	1.00	22.66
ATOM	16843	CZ3	TRP	2518	37.541	-2.585	43.503	1.00	23.85
ATOM	16844	CH2	TRP	2518	36.765	-1.903	44.456	1.00	20.90
ATOM	16845	C	TRP	2518	42.267	-2.282	43.666	1.00	22.18
ATOM	16846	O	TRP	2518	41.875	-2.651	42.560	1.00	24.23
ATOM	16847	N	LEU	2519	42.283	-1.006	44.042	1.00	21.97
ATOM	16848	CA	LEU	2519	41.804	0.080	43.184	1.00	19.59
ATOM	16849	CB	LEU	2519	41.185	1.180	44.043	1.00	20.80
ATOM	16850	CG	LEU	2519	39.771	0.921	44.553	1.00	20.95
ATOM	16851	CD1	LEU	2519	39.347	2.037	45.517	1.00	20.03
ATOM	16852	CD2	LEU	2519	38.824	0.853	43.358	1.00	19.11
ATOM	16853	C	LEU	2519	42.855	0.724	42.292	1.00	20.90
ATOM	16854	O	LEU	2519	42.525	1.556	41.444	1.00	20.68
ATOM	16855	N	VAL	2520	44.117	0.361	42.483	1.00	19.40
ATOM	16856	CA	VAL	2520	45.186	0.955	41.692	1.00	18.98
ATOM	16857	CB	VAL	2520	46.513	0.172	41.864	1.00	19.23
ATOM	16858	CG1	VAL	2520	47.524	0.629	40.825	1.00	20.17
ATOM	16859	CG2	VAL	2520	47.073	0.413	43.262	1.00	21.65
ATOM	16860	C	VAL	2520	44.870	1.070	40.206	1.00	18.55
ATOM	16861	O	VAL	2520	44.981	2.149	39.630	1.00	18.33
ATOM	16862	N	GLU	2521	44.475	-0.037	39.590	1.00	17.61
ATOM	16863	CA	GLU	2521	44.159	-0.037	38.168	1.00	21.27
ATOM	16864	CB	GLU	2521	43.770	-1.448	37.729	1.00	25.74
ATOM	16865	CG	GLU	2521	43.404	-1.568	36.261	1.00	31.82
ATOM	16866	CD	GLU	2521	43.139	-3.009	35.856	1.00	35.80
ATOM	16867	OE1	GLU	2521	42.203	-3.633	36.408	1.00	37.34
ATOM	16868	OE2	GLU	2521	43.871	-3.520	34.985	1.00	39.34
ATOM	16869	C	GLU	2521	43.037	0.942	37.828	1.00	19.73
ATOM	16870	O	GLU	2521	43.137	1.721	36.879	1.00	18.47
ATOM	16871	N	THR	2522	41.967	0.909	38.611	1.00	18.72
ATOM	16872	CA	THR	2522	40.834	1.789	38.360	1.00	17.06
ATOM	16873	CB	THR	2522	39.696	1.466	39.341	1.00	17.53
ATOM	16874	OG1	THR	2522	39.327	0.087	39.182	1.00	18.32
ATOM	16875	CG2	THR	2522	38.481	2.339	39.074	1.00	16.11
ATOM	16876	C	THR	2522	41.232	3.256	38.469	1.00	17.09
ATOM	16877	O	THR	2522	40.808	4.089	37.668	1.00	16.74
ATOM	16878	N	VAL	2523	42.060	3.580	39.452	1.00	18.90
ATOM	16879	CA	VAL	2523	42.488	4.968	39.614	1.00	18.66
ATOM	16880	CB	VAL	2523	43.295	5.155	40.910	1.00	19.35
ATOM	16881	CG1	VAL	2523	43.779	6.595	41.011	1.00	20.95
ATOM	16882	CG2	VAL	2523	42.442	4.799	42.116	1.00	18.48
ATOM	16883	C	VAL	2523	43.345	5.398	38.419	1.00	18.29
ATOM	16884	O	VAL	2523	43.141	6.476	37.858	1.00	18.36
ATOM	16885	N	GLN	2524	44.309	4.563	38.038	1.00	16.98
ATOM	16886	CA	GLN	2524	45.174	4.894	36.907	1.00	19.97
ATOM	16887	CB	GLN	2524	46.169	3.761	36.626	1.00	21.97
ATOM	16888	CG	GLN	2524	47.125	3.462	37.769	1.00	28.49
ATOM	16889	CD	GLN	2524	48.108	2.355	37.429	1.00	32.31
ATOM	16890	OE1	GLN	2524	47.711	1.273	36.998	1.00	33.90
ATOM	16891	NE2	GLN	2524	49.400	2.619	37.627	1.00	32.72

ATOM	16892	C	GLN	2524	44.359	5.153	35.648	1.00	20.47
ATOM	16893	O	GLN	2524	44.572	6.146	34.950	1.00	19.34
ATOM	16894	N	MET	2525	43.420	4.258	35.360	1.00	19.30
ATOM	16895	CA	MET	2525	42.600	4.385	34.163	1.00	20.94
ATOM	16896	CB	MET	2525	41.853	3.076	33.908	1.00	20.76
ATOM	16897	CG	MET	2525	42.796	1.931	33.555	1.00	22.97
ATOM	16898	SD	MET	2525	41.953	0.379	33.211	1.00	25.66
ATOM	16899	CE	MET	2525	41.613	0.585	31.487	1.00	26.72
ATOM	16900	C	MET	2525	41.638	5.558	34.213	1.00	21.37
ATOM	16901	O	MET	2525	41.439	6.233	33.208	1.00	21.66
ATOM	16902	N	LEU	2526	41.044	5.808	35.375	1.00	21.24
ATOM	16903	CA	LEU	2526	40.129	6.935	35.503	1.00	20.80
ATOM	16904	CB	LEU	2526	39.502	6.964	36.900	1.00	17.52
ATOM	16905	CG	LEU	2526	38.292	6.075	37.149	1.00	16.74
ATOM	16906	CD1	LEU	2526	37.996	6.041	38.641	1.00	15.92
ATOM	16907	CD2	LEU	2526	37.095	6.606	36.373	1.00	16.60
ATOM	16908	C	LEU	2526	40.878	8.241	35.263	1.00	21.12
ATOM	16909	O	LEU	2526	40.404	9.124	34.546	1.00	21.66
ATOM	16910	N	THR	2527	42.059	8.353	35.860	1.00	22.05
ATOM	16911	CA	THR	2527	42.875	9.555	35.725	1.00	24.14
ATOM	16912	CB	THR	2527	44.186	9.419	36.521	1.00	24.39
ATOM	16913	OG1	THR	2527	43.879	9.270	37.914	1.00	27.58
ATOM	16914	CG2	THR	2527	45.061	10.656	36.334	1.00	27.09
ATOM	16915	C	THR	2527	43.217	9.883	34.276	1.00	25.83
ATOM	16916	O	THR	2527	43.061	11.020	33.838	1.00	26.77
ATOM	16917	N	GLU	2528	43.679	8.888	33.529	1.00	27.93
ATOM	16918	CA	GLU	2528	44.042	9.127	32.138	1.00	29.80
ATOM	16919	CB	GLU	2528	44.815	7.935	31.578	1.00	31.80
ATOM	16920	CG	GLU	2528	43.995	6.697	31.350	1.00	32.54
ATOM	16921	CD	GLU	2528	44.836	5.567	30.791	1.00	34.95
ATOM	16922	OE1	GLU	2528	45.737	5.857	29.977	1.00	35.69
ATOM	16923	OE2	GLU	2528	44.599	4.397	31.157	1.00	32.66
ATOM	16924	C	GLU	2528	42.827	9.429	31.265	1.00	28.28
ATOM	16925	O	GLU	2528	42.971	9.896	30.135	1.00	28.14
ATOM	16926	N	ARG	2529	41.634	9.174	31.797	1.00	28.80
ATOM	16927	CA	ARG	2529	40.395	9.431	31.069	1.00	28.26
ATOM	16928	CB	ARG	2529	39.452	8.230	31.205	1.00	26.83
ATOM	16929	CG	ARG	2529	39.946	7.014	30.427	1.00	26.61
ATOM	16930	CD	ARG	2529	39.231	5.732	30.796	1.00	23.98
ATOM	16931	NE	ARG	2529	39.737	4.615	30.003	1.00	24.06
ATOM	16932	CZ	ARG	2529	40.992	4.180	30.041	1.00	25.03
ATOM	16933	NH1	ARG	2529	41.879	4.759	30.838	1.00	23.39
ATOM	16934	NH2	ARG	2529	41.368	3.171	29.270	1.00	24.77
ATOM	16935	C	ARG	2529	39.702	10.713	31.530	1.00	28.54
ATOM	16936	O	ARG	2529	38.478	10.827	31.465	1.00	28.70
ATOM	16937	N	ALA	2530	40.503	11.667	32.001	1.00	28.59
ATOM	16938	CA	ALA	2530	40.018	12.970	32.452	1.00	26.75
ATOM	16939	CB	ALA	2530	39.218	13.637	31.332	1.00	29.24
ATOM	16940	C	ALA	2530	39.196	12.970	33.737	1.00	26.34
ATOM	16941	O	ALA	2530	38.391	13.876	33.953	1.00	25.02
ATOM	16942	N	VAL	2531	39.400	11.974	34.595	1.00	23.38
ATOM	16943	CA	VAL	2531	38.655	11.907	35.849	1.00	23.24
ATOM	16944	CB	VAL	2531	37.802	10.617	35.933	1.00	22.38
ATOM	16945	CG1	VAL	2531	37.001	10.605	37.222	1.00	24.98
ATOM	16946	CG2	VAL	2531	36.874	10.530	34.740	1.00	23.60
ATOM	16947	C	VAL	2531	39.549	11.968	37.089	1.00	22.08
ATOM	16948	O	VAL	2531	40.180	10.979	37.464	1.00	20.71
ATOM	16949	N	PRO	2532	39.618	13.137	37.743	1.00	22.24
ATOM	16950	CD	PRO	2532	38.951	14.412	37.439	1.00	23.52
ATOM	16951	CA	PRO	2532	40.450	13.259	38.944	1.00	22.45
ATOM	16952	CB	PRO	2532	40.414	14.757	39.238	1.00	22.66
ATOM	16953	CG	PRO	2532	39.070	15.148	38.756	1.00	25.65
ATOM	16954	C	PRO	2532	39.836	12.421	40.057	1.00	21.12
ATOM	16955	O	PRO	2532	38.623	12.446	40.255	1.00	21.74
ATOM	16956	N	VAL	2533	40.673	11.678	40.773	1.00	19.42
ATOM	16957	CA	VAL	2533	40.208	10.802	41.837	1.00	18.80
ATOM	16958	CB	VAL	2533	40.670	9.345	41.596	1.00	18.15
ATOM	16959	CG1	VAL	2533	40.209	8.462	42.736	1.00	19.03
ATOM	16960	CG2	VAL	2533	40.134	8.832	40.263	1.00	18.13
ATOM	16961	C	VAL	2533	40.696	11.181	43.220	1.00	18.90
ATOM	16962	O	VAL	2533	41.844	11.587	43.389	1.00	19.13
ATOM	16963	N	CYS	2534	39.813	11.044	44.204	1.00	17.65
ATOM	16964	CA	CYS	2534	40.143	11.296	45.608	1.00	17.23
ATOM	16965	CB	CYS	2534	39.125	12.250	46.259	1.00	16.92
ATOM	16966	SG	CYS	2534	39.435	12.575	48.025	1.00	17.39
ATOM	16967	C	CYS	2534	40.038	9.922	46.265	1.00	17.85
ATOM	16968	O	CYS	2534	39.004	9.258	46.159	1.00	20.42

ATOM	16969	N	GLY	2535	41.107	9.481	46.917	1.00	16.91
ATOM	16970	CA	GLY	2535	41.084	8.192	47.580	1.00	17.14
ATOM	16971	C	GLY	2535	40.382	8.290	48.921	1.00	18.33
ATOM	16972	O	GLY	2535	40.041	9.388	49.362	1.00	19.66
ATOM	16973	N	HIS	2536	40.168	7.149	49.568	1.00	17.24
ATOM	16974	CA	HIS	2536	39.504	7.106	50.869	1.00	18.82
ATOM	16975	CB	HIS	2536	37.980	7.162	50.683	1.00	20.25
ATOM	16976	CG	HIS	2536	37.207	7.331	51.956	1.00	18.55
ATOM	16977	CD2	HIS	2536	37.537	7.091	53.248	1.00	19.79
ATOM	16978	ND1	HIS	2536	35.897	7.761	51.971	1.00	20.89
ATOM	16979	CE1	HIS	2536	35.453	7.777	53.215	1.00	19.89
ATOM	16980	NE2	HIS	2536	36.428	7.373	54.010	1.00	20.24
ATOM	16981	C	HIS	2536	39.922	5.823	51.575	1.00	18.66
ATOM	16982	O	HIS	2536	39.620	4.717	51.123	1.00	19.56
ATOM	16983	N	LEU	2537	40.639	5.984	52.680	1.00	18.70
ATOM	16984	CA	LEU	2537	41.127	4.855	53.455	1.00	17.87
ATOM	16985	CB	LEU	2537	42.650	4.771	53.338	1.00	19.01
ATOM	16986	CG	LEU	2537	43.229	4.387	51.973	1.00	16.20
ATOM	16987	CD1	LEU	2537	44.757	4.537	51.995	1.00	16.71
ATOM	16988	CD2	LEU	2537	42.851	2.929	51.653	1.00	17.55
ATOM	16989	C	LEU	2537	40.737	4.977	54.926	1.00	19.09
ATOM	16990	O	LEU	2537	40.273	6.026	55.371	1.00	20.25
ATOM	16991	N	GLY	2538	40.960	3.901	55.670	1.00	18.13
ATOM	16992	CA	GLY	2538	40.633	3.882	57.078	1.00	19.82
ATOM	16993	C	GLY	2538	39.275	3.253	57.287	1.00	21.82
ATOM	16994	O	GLY	2538	39.013	2.131	56.843	1.00	22.22
ATOM	16995	N	LEU	2539	38.394	3.980	57.959	1.00	21.58
ATOM	16996	CA	LEU	2539	37.059	3.470	58.193	1.00	22.62
ATOM	16997	CB	LEU	2539	36.478	4.096	59.464	1.00	23.08
ATOM	16998	CG	LEU	2539	35.394	3.309	60.206	1.00	25.71
ATOM	16999	CD1	LEU	2539	34.896	4.150	61.377	1.00	27.15
ATOM	17000	CD2	LEU	2539	34.254	2.962	59.280	1.00	24.37
ATOM	17001	C	LEU	2539	36.213	3.830	56.977	1.00	22.01
ATOM	17002	O	LEU	2539	35.665	4.931	56.897	1.00	24.68
ATOM	17003	N	THR	2540	36.139	2.909	56.020	1.00	21.79
ATOM	17004	CA	THR	2540	35.350	3.100	54.801	1.00	23.60
ATOM	17005	CB	THR	2540	35.991	2.337	53.599	1.00	22.72
ATOM	17006	OG1	THR	2540	36.312	0.996	53.991	1.00	22.38
ATOM	17007	CG2	THR	2540	37.258	3.035	53.143	1.00	25.28
ATOM	17008	C	THR	2540	33.934	2.574	55.072	1.00	23.37
ATOM	17009	O	THR	2540	33.680	1.371	54.992	1.00	23.82
ATOM	17010	N	PRO	2541	32.997	3.483	55.403	1.00	24.67
ATOM	17011	CD	PRO	2541	33.189	4.941	55.330	1.00	25.29
ATOM	17012	CA	PRO	2541	31.595	3.165	55.711	1.00	23.91
ATOM	17013	CB	PRO	2541	30.927	4.543	55.801	1.00	25.13
ATOM	17014	CG	PRO	2541	31.817	5.420	54.989	1.00	29.14
ATOM	17015	C	PRO	2541	30.866	2.212	54.777	1.00	22.03
ATOM	17016	O	PRO	2541	29.964	1.489	55.212	1.00	21.27
ATOM	17017	N	GLN	2542	31.241	2.196	53.504	1.00	21.17
ATOM	17018	CA	GLN	2542	30.593	1.280	52.562	1.00	20.34
ATOM	17019	CB	GLN	2542	31.081	1.542	51.126	1.00	19.40
ATOM	17020	CG	GLN	2542	30.468	2.776	50.462	1.00	19.10
ATOM	17021	CD	GLN	2542	31.057	3.072	49.090	1.00	20.00
ATOM	17022	OE1	GLN	2542	31.534	2.172	48.399	1.00	21.78
ATOM	17023	NE2	GLN	2542	31.014	4.335	48.686	1.00	18.53
ATOM	17024	C	GLN	2542	30.887	-0.166	52.962	1.00	20.22
ATOM	17025	O	GLN	2542	30.106	-1.067	52.659	1.00	21.15
ATOM	17026	N	SER	2543	32.005	-0.381	53.655	1.00	21.08
ATOM	17027	CA	SER	2543	32.392	-1.725	54.089	1.00	20.09
ATOM	17028	CB	SER	2543	33.903	-1.934	53.925	1.00	22.29
ATOM	17029	OG	SER	2543	34.275	-2.037	52.553	1.00	22.70
ATOM	17030	C	SER	2543	32.009	-2.008	55.541	1.00	20.40
ATOM	17031	O	SER	2543	32.533	-2.938	56.162	1.00	19.84
ATOM	17032	N	VAL	2544	31.084	-1.218	56.077	1.00	19.14
ATOM	17033	CA	VAL	2544	30.644	-1.391	57.455	1.00	20.23
ATOM	17034	CB	VAL	2544	29.416	-0.473	57.774	1.00	21.04
ATOM	17035	CG1	VAL	2544	28.242	-0.812	56.867	1.00	22.60
ATOM	17036	CG2	VAL	2544	29.031	-0.615	59.235	1.00	24.52
ATOM	17037	C	VAL	2544	30.301	-2.847	57.775	1.00	19.12
ATOM	17038	O	VAL	2544	30.623	-3.343	58.854	1.00	17.37
ATOM	17039	N	ASN	2545	29.659	-3.533	56.835	1.00	20.26
ATOM	17040	CA	ASN	2545	29.288	-4.923	57.041	1.00	21.25
ATOM	17041	CB	ASN	2545	28.350	-5.383	55.921	1.00	20.97
ATOM	17042	CG	ASN	2545	27.009	-4.683	55.969	1.00	19.71
ATOM	17043	OD1	ASN	2545	26.215	-4.912	56.881	1.00	19.36
ATOM	17044	ND2	ASN	2545	26.755	-3.806	54.997	1.00	20.75
ATOM	17045	C	ASN	2545	30.521	-5.820	57.101	1.00	22.83

ATOM	17046	O	ASN	2545	30.499	-6.877	57.726	1.00	23.72
ATOM	17047	N	ILE	2546	31.594	-5.395	56.443	1.00	22.99
ATOM	17048	CA	ILE	2546	32.839	-6.154	56.447	1.00	24.98
ATOM	17049	CB	ILE	2546	33.842	-5.623	55.379	1.00	25.25
ATOM	17050	CG2	ILE	2546	35.189	-6.332	55.529	1.00	24.01
ATOM	17051	CG1	ILE	2546	33.295	-5.852	53.968	1.00	25.29
ATOM	17052	CD1	ILE	2546	33.166	-7.330	53.587	1.00	25.88
ATOM	17053	C	ILE	2546	33.485	-6.028	57.827	1.00	26.31
ATOM	17054	O	ILE	2546	33.852	-7.027	58.445	1.00	25.76
ATOM	17055	N	PHE	2547	33.606	-4.794	58.309	1.00	26.71
ATOM	17056	CA	PHE	2547	34.214	-4.534	59.615	1.00	29.32
ATOM	17057	CB	PHE	2547	34.482	-3.033	59.802	1.00	29.87
ATOM	17058	CG	PHE	2547	35.258	-2.401	58.679	1.00	32.32
ATOM	17059	CD1	PHE	2547	36.474	-2.939	58.258	1.00	33.03
ATOM	17060	CD2	PHE	2547	34.782	-1.253	58.054	1.00	32.76
ATOM	17061	CE1	PHE	2547	37.204	-2.342	57.229	1.00	32.42
ATOM	17062	CE2	PHE	2547	35.504	-0.647	57.024	1.00	33.54
ATOM	17063	CZ	PHE	2547	36.719	-1.195	56.612	1.00	33.74
ATOM	17064	C	PHE	2547	33.325	-5.011	60.756	1.00	30.19
ATOM	17065	O	PHE	2547	33.814	-5.329	61.837	1.00	31.92
ATOM	17066	N	GLY	2548	32.020	-5.063	60.509	1.00	30.16
ATOM	17067	CA	GLY	2548	31.093	-5.483	61.541	1.00	30.32
ATOM	17068	C	GLY	2548	30.665	-4.284	62.367	1.00	31.76
ATOM	17069	O	GLY	2548	30.281	-4.412	63.529	1.00	33.19
ATOM	17070	N	GLY	2549	30.741	-3.106	61.756	1.00	32.09
ATOM	17071	CA	GLY	2549	30.361	-1.882	62.438	1.00	31.70
ATOM	17072	C	GLY	2549	31.326	-0.764	62.095	1.00	31.81
ATOM	17073	O	GLY	2549	32.223	-0.943	61.273	1.00	30.10
ATOM	17074	N	TYR	2550	31.151	0.394	62.722	1.00	32.22
ATOM	17075	CA	TYR	2550	32.030	1.525	62.467	1.00	33.59
ATOM	17076	CB	TYR	2550	31.229	2.827	62.456	1.00	34.84
ATOM	17077	CG	TYR	2550	30.084	2.806	61.470	1.00	36.99
ATOM	17078	CD1	TYR	2550	28.863	2.207	61.800	1.00	37.25
ATOM	17079	CE1	TYR	2550	27.821	2.140	60.875	1.00	38.43
ATOM	17080	CD2	TYR	2550	30.233	3.339	60.189	1.00	37.03
ATOM	17081	CE2	TYR	2550	29.201	3.275	59.255	1.00	37.75
ATOM	17082	CZ	TYR	2550	27.999	2.675	59.600	1.00	38.27
ATOM	17083	OH	TYR	2550	26.986	2.600	58.671	1.00	36.43
ATOM	17084	C	TYR	2550	33.105	1.564	63.546	1.00	34.34
ATOM	17085	O	TYR	2550	32.948	2.226	64.572	1.00	35.56
ATOM	17086	N	LYS	2551	34.194	0.840	63.306	1.00	32.76
ATOM	17087	CA	LYS	2551	35.298	0.752	64.254	1.00	32.19
ATOM	17088	CB	LYS	2551	35.598	-0.719	64.546	1.00	34.81
ATOM	17089	CG	LYS	2551	34.364	-1.541	64.900	1.00	38.01
ATOM	17090	CD	LYS	2551	34.699	-3.015	65.008	1.00	40.22
ATOM	17091	CE	LYS	2551	33.462	-3.851	65.283	1.00	41.88
ATOM	17092	NZ	LYS	2551	33.802	-5.302	65.396	1.00	44.79
ATOM	17093	C	LYS	2551	36.553	1.435	63.719	1.00	30.37
ATOM	17094	O	LYS	2551	36.786	1.462	62.513	1.00	30.25
ATOM	17095	N	VAL	2552	37.363	1.982	64.619	1.00	29.43
ATOM	17096	CA	VAL	2552	38.590	2.658	64.215	1.00	28.03
ATOM	17097	CB	VAL	2552	39.312	3.274	65.433	1.00	28.51
ATOM	17098	CG1	VAL	2552	40.619	3.922	65.001	1.00	26.74
ATOM	17099	CG2	VAL	2552	38.410	4.304	66.096	1.00	26.18
ATOM	17100	C	VAL	2552	39.512	1.662	63.518	1.00	27.85
ATOM	17101	O	VAL	2552	39.697	0.538	63.988	1.00	26.93
ATOM	17102	N	GLN	2553	40.085	2.080	62.395	1.00	27.87
ATOM	17103	CA	GLN	2553	40.973	1.217	61.626	1.00	29.57
ATOM	17104	CB	GLN	2553	40.523	1.196	60.162	1.00	30.19
ATOM	17105	CG	GLN	2553	40.399	-0.196	59.554	1.00	34.54
ATOM	17106	CD	GLN	2553	39.402	-1.069	60.292	1.00	34.33
ATOM	17107	OE1	GLN	2553	38.286	-0.641	60.594	1.00	35.02
ATOM	17108	NE2	GLN	2553	39.798	-2.303	60.582	1.00	37.14
ATOM	17109	C	GLN	2553	42.419	1.695	61.715	1.00	29.23
ATOM	17110	O	GLN	2553	42.686	2.813	62.152	1.00	29.38
ATOM	17111	N	GLY	2554	43.346	0.837	61.303	1.00	30.12
ATOM	17112	CA	GLY	2554	44.752	1.200	61.328	1.00	31.55
ATOM	17113	C	GLY	2554	45.499	0.751	62.568	1.00	33.25
ATOM	17114	O	GLY	2554	46.730	0.754	62.590	1.00	33.26
ATOM	17115	N	ARG	2555	44.755	0.371	63.602	1.00	33.75
ATOM	17116	CA	ARG	2555	45.350	-0.088	64.851	1.00	34.75
ATOM	17117	CB	ARG	2555	44.253	-0.548	65.818	1.00	36.93
ATOM	17118	CG	ARG	2555	43.309	0.558	66.303	1.00	39.18
ATOM	17119	CD	ARG	2555	43.894	1.309	67.489	1.00	40.08
ATOM	17120	NE	ARG	2555	42.993	2.331	68.030	1.00	39.43
ATOM	17121	CZ	ARG	2555	41.807	2.081	68.580	1.00	40.99
ATOM	17122	NH1	ARG	2555	41.356	0.836	68.666	1.00	41.89

ATOM	17123	NH2	ARG	2555	41.075	3.079	69.058	1.00	38.37
ATOM	17124	C	ARG	2555	46.310	-1.242	64.581	1.00	34.23
ATOM	17125	O	ARG	2555	45.958	-2.208	63.903	1.00	33.15
ATOM	17126	N	GLY	2556	47.523	-1.140	65.114	1.00	34.60
ATOM	17127	CA	GLY	2556	48.503	-2.194	64.912	1.00	35.58
ATOM	17128	C	GLY	2556	49.469	-1.893	63.784	1.00	35.76
ATOM	17129	O	GLY	2556	49.157	-1.128	62.872	1.00	35.13
ATOM	17130	N	ASP	2557	50.647	-2.505	63.839	1.00	36.48
ATOM	17131	CA	ASP	2557	51.663	-2.282	62.819	1.00	36.98
ATOM	17132	CB	ASP	2557	52.984	-2.932	63.231	1.00	37.65
ATOM	17133	CG	ASP	2557	53.604	-2.265	64.437	1.00	38.08
ATOM	17134	OD1	ASP	2557	53.271	-1.088	64.697	1.00	38.16
ATOM	17135	OD2	ASP	2557	54.434	-2.909	65.115	1.00	38.66
ATOM	17136	C	ASP	2557	51.266	-2.776	61.439	1.00	36.71
ATOM	17137	O	ASP	2557	51.405	-2.049	60.457	1.00	38.15
ATOM	17138	N	GLU	2558	50.777	-4.009	61.358	1.00	36.83
ATOM	17139	CA	GLU	2558	50.381	-4.573	60.074	1.00	37.15
ATOM	17140	CB	GLU	2558	49.895	-6.012	60.242	1.00	40.41
ATOM	17141	CG	GLU	2558	49.768	-6.763	58.928	1.00	44.93
ATOM	17142	CD	GLU	2558	48.831	-7.946	59.018	1.00	47.28
ATOM	17143	OE1	GLU	2558	49.026	-8.794	59.916	1.00	48.79
ATOM	17144	OE2	GLU	2558	47.899	-8.027	58.187	1.00	48.79
ATOM	17145	C	GLU	2558	49.270	-3.740	59.450	1.00	36.06
ATOM	17146	O	GLU	2558	49.344	-3.363	58.280	1.00	34.74
ATOM	17147	N	ALA	2559	48.239	-3.456	60.240	1.00	33.89
ATOM	17148	CA	ALA	2559	47.114	-2.665	59.763	1.00	32.57
ATOM	17149	CB	ALA	2559	46.037	-2.571	60.846	1.00	32.43
ATOM	17150	C	ALA	2559	47.590	-1.274	59.366	1.00	30.42
ATOM	17151	O	ALA	2559	47.180	-0.739	58.338	1.00	30.62
ATOM	17152	N	GLY	2560	48.460	-0.694	60.188	1.00	28.46
ATOM	17153	CA	GLY	2560	48.978	0.630	59.898	1.00	26.73
ATOM	17154	C	GLY	2560	49.817	0.672	58.633	1.00	25.98
ATOM	17155	O	GLY	2560	49.664	1.574	57.811	1.00	25.52
ATOM	17156	N	ASP	2561	50.703	-0.305	58.465	1.00	25.18
ATOM	17157	CA	ASP	2561	51.558	-0.339	57.285	1.00	24.81
ATOM	17158	CB	ASP	2561	52.603	-1.451	57.401	1.00	26.12
ATOM	17159	CG	ASP	2561	53.606	-1.197	58.507	1.00	26.29
ATOM	17160	OD1	ASP	2561	53.951	-0.020	58.744	1.00	27.90
ATOM	17161	OD2	ASP	2561	54.064	-2.178	59.127	1.00	29.88
ATOM	17162	C	ASP	2561	50.731	-0.545	56.022	1.00	24.94
ATOM	17163	O	ASP	2561	51.032	0.020	54.967	1.00	25.26
ATOM	17164	N	GLN	2562	49.681	-1.351	56.127	1.00	25.61
ATOM	17165	CA	GLN	2562	48.829	-1.612	54.975	1.00	24.70
ATOM	17166	CB	GLN	2562	47.763	-2.651	55.324	1.00	27.82
ATOM	17167	CG	GLN	2562	46.939	-3.080	54.123	1.00	28.73
ATOM	17168	CD	GLN	2562	47.781	-3.794	53.087	1.00	29.94
ATOM	17169	OE1	GLN	2562	48.326	-4.865	53.356	1.00	31.90
ATOM	17170	NE2	GLN	2562	47.900	-3.204	51.898	1.00	29.29
ATOM	17171	C	GLN	2562	48.157	-0.327	54.504	1.00	24.50
ATOM	17172	O	GLN	2562	48.084	-0.059	53.303	1.00	23.09
ATOM	17173	N	LEU	2563	47.658	0.468	55.448	1.00	25.26
ATOM	17174	CA	LEU	2563	46.999	1.728	55.102	1.00	24.24
ATOM	17175	CB	LEU	2563	46.331	2.353	56.333	1.00	24.36
ATOM	17176	CG	LEU	2563	45.074	1.675	56.882	1.00	26.38
ATOM	17177	CD1	LEU	2563	44.544	2.465	58.070	1.00	27.10
ATOM	17178	CD2	LEU	2563	44.018	1.599	55.797	1.00	27.72
ATOM	17179	C	LEU	2563	48.006	2.707	54.528	1.00	24.78
ATOM	17180	O	LEU	2563	47.694	3.476	53.619	1.00	22.15
ATOM	17181	N	LEU	2564	49.220	2.682	55.067	1.00	24.45
ATOM	17182	CA	LEU	2564	50.264	3.580	54.590	1.00	23.89
ATOM	17183	CB	LEU	2564	51.495	3.480	55.491	1.00	25.26
ATOM	17184	CG	LEU	2564	52.282	4.773	55.744	1.00	27.78
ATOM	17185	CD1	LEU	2564	53.598	4.405	56.410	1.00	29.55
ATOM	17186	CD2	LEU	2564	52.535	5.535	54.457	1.00	27.60
ATOM	17187	C	LEU	2564	50.638	3.173	53.169	1.00	21.75
ATOM	17188	O	LEU	2564	50.738	4.013	52.277	1.00	22.25
ATOM	17189	N	SER	2565	50.838	1.875	52.968	1.00	21.52
ATOM	17190	CA	SER	2565	51.205	1.361	51.658	1.00	23.48
ATOM	17191	CB	SER	2565	51.473	-0.142	51.745	1.00	26.47
ATOM	17192	OG	SER	2565	51.998	-0.634	50.523	1.00	34.86
ATOM	17193	C	SER	2565	50.107	1.645	50.632	1.00	22.74
ATOM	17194	O	SER	2565	50.390	1.989	49.481	1.00	21.74
ATOM	17195	N	ASP	2566	48.853	1.500	51.054	1.00	19.93
ATOM	17196	CA	ASP	2566	47.718	1.753	50.168	1.00	18.63
ATOM	17197	CB	ASP	2566	46.399	1.335	50.836	1.00	19.80
ATOM	17198	CG	ASP	2566	46.206	-0.174	50.867	1.00	21.76
ATOM	17199	OD1	ASP	2566	46.935	-0.883	50.146	1.00	24.30



ATOM	17200	OD2	ASP	2566	45.313	-0.655	51.605	1.00	20.99
ATOM	17201	C	ASP	2566	47.647	3.226	49.785	1.00	18.77
ATOM	17202	O	ASP	2566	47.329	3.560	48.650	1.00	19.96
ATOM	17203	N	ALA	2567	47.945	4.109	50.732	1.00	17.84
ATOM	17204	CA	ALA	2567	47.904	5.536	50.451	1.00	17.61
ATOM	17205	CB	ALA	2567	48.135	6.341	51.731	1.00	18.06
ATOM	17206	C	ALA	2567	48.964	5.894	49.412	1.00	16.53
ATOM	17207	O	ALA	2567	48.705	6.675	48.504	1.00	15.81
ATOM	17208	N	LEU	2568	50.162	5.338	49.560	1.00	16.61
ATOM	17209	CA	LEU	2568	51.232	5.615	48.613	1.00	18.69
ATOM	17210	CB	LEU	2568	52.563	5.047	49.127	1.00	21.36
ATOM	17211	CG	LEU	2568	53.121	5.741	50.379	1.00	22.49
ATOM	17212	CD1	LEU	2568	54.332	4.997	50.913	1.00	25.07
ATOM	17213	CD2	LEU	2568	53.484	7.182	50.031	1.00	24.13
ATOM	17214	C	LEU	2568	50.887	5.011	47.249	1.00	18.91
ATOM	17215	O	LEU	2568	51.158	5.611	46.214	1.00	20.34
ATOM	17216	N	ALA	2569	50.268	3.835	47.254	1.00	19.41
ATOM	17217	CA	ALA	2569	49.892	3.155	46.015	1.00	20.41
ATOM	17218	CB	ALA	2569	49.395	1.738	46.317	1.00	19.39
ATOM	17219	C	ALA	2569	48.820	3.929	45.257	1.00	20.57
ATOM	17220	O	ALA	2569	48.834	3.982	44.024	1.00	18.66
ATOM	17221	N	LEU	2570	47.875	4.506	45.996	1.00	21.33
ATOM	17222	CA	LEU	2570	46.810	5.295	45.385	1.00	20.35
ATOM	17223	CB	LEU	2570	45.718	5.630	46.412	1.00	20.88
ATOM	17224	CG	LEU	2570	44.822	4.476	46.878	1.00	20.36
ATOM	17225	CD1	LEU	2570	43.854	4.960	47.959	1.00	20.64
ATOM	17226	CD2	LEU	2570	44.056	3.926	45.682	1.00	21.94
ATOM	17227	C	LEU	2570	47.401	6.582	44.824	1.00	20.57
ATOM	17228	O	LEU	2570	46.999	7.049	43.754	1.00	16.60
ATOM	17229	N	GLU	2571	48.356	7.163	45.547	1.00	19.59
ATOM	17230	CA	GLU	2571	48.990	8.389	45.076	1.00	20.08
ATOM	17231	CB	GLU	2571	49.965	8.937	46.127	1.00	19.80
ATOM	17232	CG	GLU	2571	50.705	10.184	45.662	1.00	22.18
ATOM	17233	CD	GLU	2571	51.688	10.684	46.706	1.00	22.20
ATOM	17234	OE1	GLU	2571	52.470	9.854	47.213	1.00	23.24
ATOM	17235	OE2	GLU	2571	51.677	11.891	47.003	1.00	21.21
ATOM	17236	C	GLU	2571	49.748	8.124	43.779	1.00	19.41
ATOM	17237	O	GLU	2571	49.658	8.904	42.833	1.00	20.18
ATOM	17238	N	ALA	2572	50.491	7.020	43.745	1.00	20.49
ATOM	17239	CA	ALA	2572	51.266	6.660	42.564	1.00	21.39
ATOM	17240	CB	ALA	2572	52.137	5.453	42.859	1.00	23.82
ATOM	17241	C	ALA	2572	50.347	6.363	41.388	1.00	22.09
ATOM	17242	O	ALA	2572	50.718	6.555	40.228	1.00	20.31
ATOM	17243	N	ALA	2573	49.142	5.903	41.702	1.00	22.04
ATOM	17244	CA	ALA	2573	48.152	5.564	40.689	1.00	21.67
ATOM	17245	CB	ALA	2573	47.038	4.725	41.313	1.00	20.41
ATOM	17246	C	ALA	2573	47.569	6.807	40.029	1.00	20.80
ATOM	17247	O	ALA	2573	47.084	6.746	38.900	1.00	20.43
ATOM	17248	N	GLY	2574	47.615	7.934	40.733	1.00	19.07
ATOM	17249	CA	GLY	2574	47.089	9.163	40.168	1.00	17.50
ATOM	17250	C	GLY	2574	46.141	9.944	41.060	1.00	17.16
ATOM	17251	O	GLY	2574	45.716	11.041	40.701	1.00	17.95
ATOM	17252	N	ALA	2575	45.796	9.390	42.217	1.00	17.09
ATOM	17253	CA	ALA	2575	44.904	10.083	43.137	1.00	19.39
ATOM	17254	CB	ALA	2575	44.694	9.246	44.388	1.00	17.57
ATOM	17255	C	ALA	2575	45.516	11.444	43.498	1.00	20.74
ATOM	17256	O	ALA	2575	46.687	11.526	43.876	1.00	22.35
ATOM	17257	N	GLN	2576	44.731	12.510	43.375	1.00	20.06
ATOM	17258	CA	GLN	2576	45.226	13.848	43.684	1.00	21.20
ATOM	17259	CB	GLN	2576	44.733	14.836	42.628	1.00	24.45
ATOM	17260	CG	GLN	2576	45.226	14.509	41.223	1.00	29.02
ATOM	17261	CD	GLN	2576	44.551	15.337	40.149	1.00	31.24
ATOM	17262	OE1	GLN	2576	44.686	16.559	40.109	1.00	36.20
ATOM	17263	NE2	GLN	2576	43.811	14.671	39.271	1.00	32.65
ATOM	17264	C	GLN	2576	44.822	14.316	45.082	1.00	21.51
ATOM	17265	O	GLN	2576	45.260	15.371	45.549	1.00	19.45
ATOM	17266	N	LEU	2577	43.991	13.519	45.744	1.00	20.67
ATOM	17267	CA	LEU	2577	43.517	13.817	47.093	1.00	21.57
ATOM	17268	CB	LEU	2577	42.207	14.609	47.032	1.00	25.05
ATOM	17269	CG	LEU	2577	42.283	16.133	47.063	1.00	26.27
ATOM	17270	CD1	LEU	2577	40.924	16.728	46.738	1.00	27.14
ATOM	17271	CD2	LEU	2577	42.751	16.576	48.449	1.00	27.72
ATOM	17272	C	LEU	2577	43.280	12.515	47.850	1.00	21.36
ATOM	17273	O	LEU	2577	43.059	11.472	47.239	1.00	22.18
ATOM	17274	N	LEU	2578	43.327	12.571	49.178	1.00	19.22
ATOM	17275	CA	LEU	2578	43.085	11.383	49.991	1.00	19.03
ATOM	17276	CB	LEU	2578	44.403	10.691	50.389	1.00	19.80

ATOM	17277	CG	LEU	2578	44.235	9.475	51.320	1.00	20.24
ATOM	17278	CD1	LEU	2578	43.537	8.346	50.556	1.00	21.15
ATOM	17279	CD2	LEU	2578	45.587	8.989	51.840	1.00	20.62
ATOM	17280	C	LEU	2578	42.321	11.722	51.261	1.00	20.13
ATOM	17281	O	LEU	2578	42.636	12.694	51.949	1.00	20.75
ATOM	17282	N	VAL	2579	41.303	10.924	51.560	1.00	19.83
ATOM	17283	CA	VAL	2579	40.529	11.105	52.779	1.00	18.16
ATOM	17284	CB	VAL	2579	39.000	11.083	52.508	1.00	17.51
ATOM	17285	CG1	VAL	2579	38.230	10.860	53.822	1.00	16.02
ATOM	17286	CG2	VAL	2579	38.569	12.401	51.890	1.00	17.32
ATOM	17287	C	VAL	2579	40.884	9.962	53.720	1.00	19.66
ATOM	17288	O	VAL	2579	40.874	8.793	53.321	1.00	19.81
ATOM	17289	N	LEU	2580	41.232	10.316	54.956	1.00	19.69
ATOM	17290	CA	LEU	2580	41.576	9.350	55.997	1.00	20.23
ATOM	17291	CB	LEU	2580	42.912	9.684	56.656	1.00	21.71
ATOM	17292	CG	LEU	2580	44.174	9.119	56.045	1.00	24.93
ATOM	17293	CD1	LEU	2580	45.332	9.429	56.983	1.00	22.17
ATOM	17294	CD2	LEU	2580	44.027	7.607	55.848	1.00	22.55
ATOM	17295	C	LEU	2580	40.510	9.440	57.063	1.00	19.52
ATOM	17296	O	LEU	2580	40.321	10.502	57.648	1.00	20.28
ATOM	17297	N	GLU	2581	39.840	8.327	57.330	1.00	19.37
ATOM	17298	CA	GLU	2581	38.759	8.310	58.308	1.00	19.88
ATOM	17299	CB	GLU	2581	37.452	7.906	57.611	1.00	20.26
ATOM	17300	CG	GLU	2581	36.289	7.660	58.564	1.00	22.54
ATOM	17301	CD	GLU	2581	34.945	7.737	57.869	1.00	24.53
ATOM	17302	OE1	GLU	2581	34.920	7.787	56.622	1.00	21.82
ATOM	17303	OE2	GLU	2581	33.912	7.748	58.572	1.00	26.36
ATOM	17304	C	GLU	2581	38.974	7.416	59.519	1.00	17.68
ATOM	17305	O	GLU	2581	39.317	6.247	59.388	1.00	18.36
ATOM	17306	N	CYS	2582	38.779	7.988	60.701	1.00	19.70
ATOM	17307	CA	CYS	2582	38.896	7.263	61.955	1.00	19.88
ATOM	17308	CB	CYS	2582	37.605	6.489	62.218	1.00	21.29
ATOM	17309	SG	CYS	2582	36.197	7.601	62.460	1.00	24.19
ATOM	17310	C	CYS	2582	40.091	6.340	62.067	1.00	19.95
ATOM	17311	O	CYS	2582	39.963	5.118	62.120	1.00	21.49
ATOM	17312	N	VAL	2583	41.261	6.954	62.127	1.00	21.05
ATOM	17313	CA	VAL	2583	42.506	6.226	62.241	1.00	23.03
ATOM	17314	CB	VAL	2583	43.317	6.351	60.924	1.00	23.48
ATOM	17315	CG1	VAL	2583	43.590	7.812	60.617	1.00	23.25
ATOM	17316	CG2	VAL	2583	44.609	5.593	61.029	1.00	25.06
ATOM	17317	C	VAL	2583	43.277	6.871	63.385	1.00	23.22
ATOM	17318	O	VAL	2583	43.094	8.053	63.675	1.00	22.61
ATOM	17319	N	PRO	2584	44.132	6.099	64.067	1.00	24.47
ATOM	17320	CD	PRO	2584	44.412	4.662	63.956	1.00	23.45
ATOM	17321	CA	PRO	2584	44.891	6.701	65.163	1.00	24.14
ATOM	17322	CB	PRO	2584	45.745	5.538	65.680	1.00	25.70
ATOM	17323	CG	PRO	2584	45.792	4.581	64.518	1.00	28.17
ATOM	17324	C	PRO	2584	45.708	7.873	64.635	1.00	24.60
ATOM	17325	O	PRO	2584	46.285	7.804	63.545	1.00	23.19
ATOM	17326	N	VAL	2585	45.727	8.958	65.400	1.00	23.51
ATOM	17327	CA	VAL	2585	46.444	10.172	65.025	1.00	23.75
ATOM	17328	CB	VAL	2585	46.511	11.158	66.214	1.00	24.99
ATOM	17329	CG1	VAL	2585	47.098	12.491	65.758	1.00	23.50
ATOM	17330	CG2	VAL	2585	45.124	11.363	66.790	1.00	25.53
ATOM	17331	C	VAL	2585	47.865	9.895	64.549	1.00	25.46
ATOM	17332	O	VAL	2585	48.317	10.477	63.563	1.00	24.79
ATOM	17333	N	GLU	2586	48.563	9.002	65.245	1.00	26.45
ATOM	17334	CA	GLU	2586	49.939	8.683	64.879	1.00	28.54
ATOM	17335	CB	GLU	2586	50.559	7.688	65.873	1.00	30.14
ATOM	17336	CG	GLU	2586	49.580	6.852	66.695	1.00	35.51
ATOM	17337	CD	GLU	2586	48.843	7.665	67.757	1.00	37.22
ATOM	17338	OE1	GLU	2586	49.464	8.566	68.363	1.00	38.20
ATOM	17339	OE2	GLU	2586	47.649	7.388	67.992	1.00	39.25
ATOM	17340	C	GLU	2586	50.064	8.150	63.456	1.00	28.46
ATOM	17341	O	GLU	2586	51.045	8.425	62.769	1.00	27.67
ATOM	17342	N	LEU	2587	49.065	7.394	63.017	1.00	27.65
ATOM	17343	CA	LEU	2587	49.077	6.834	61.674	1.00	26.73
ATOM	17344	CB	LEU	2587	48.026	5.731	61.554	1.00	28.21
ATOM	17345	CG	LEU	2587	48.378	4.497	60.721	1.00	30.72
ATOM	17346	CD1	LEU	2587	47.099	3.720	60.454	1.00	29.14
ATOM	17347	CD2	LEU	2587	49.043	4.886	59.409	1.00	30.86
ATOM	17348	C	LEU	2587	48.785	7.937	60.654	1.00	26.34
ATOM	17349	O	LEU	2587	49.398	7.987	59.583	1.00	24.48
ATOM	17350	N	ALA	2588	47.848	8.820	60.994	1.00	24.00
ATOM	17351	CA	ALA	2588	47.484	9.922	60.111	1.00	23.70
ATOM	17352	CB	ALA	2588	46.331	10.737	60.712	1.00	23.08
ATOM	17353	C	ALA	2588	48.691	10.815	59.887	1.00	24.14

ATOM	17354	O	ALA	2588	48.839	11.415	58.822	1.00	22.54
ATOM	17355	N	LYS	2589	49.548	10.904	60.901	1.00	24.22
ATOM	17356	CA	LYS	2589	50.760	11.709	60.816	1.00	25.74
ATOM	17357	CB	LYS	2589	51.471	11.751	62.172	1.00	27.20
ATOM	17358	CG	LYS	2589	50.586	12.130	63.345	1.00	32.13
ATOM	17359	CD	LYS	2589	51.399	12.323	64.625	1.00	36.29
ATOM	17360	CE	LYS	2589	50.510	12.760	65.784	1.00	35.55
ATOM	17361	NZ	LYS	2589	51.296	13.309	66.917	1.00	39.50
ATOM	17362	C	LYS	2589	51.694	11.086	59.781	1.00	23.37
ATOM	17363	O	LYS	2589	52.171	11.768	58.881	1.00	26.48
ATOM	17364	N	ARG	2590	51.934	9.785	59.915	1.00	23.58
ATOM	17365	CA	ARG	2590	52.813	9.062	59.005	1.00	22.93
ATOM	17366	CB	ARG	2590	52.882	7.575	59.374	1.00	25.56
ATOM	17367	CG	ARG	2590	52.959	7.280	60.863	1.00	27.56
ATOM	17368	CD	ARG	2590	53.951	6.177	61.187	1.00	28.90
ATOM	17369	NE	ARG	2590	53.876	4.999	60.319	1.00	28.63
ATOM	17370	CZ	ARG	2590	53.110	3.933	60.536	1.00	30.48
ATOM	17371	NH1	ARG	2590	52.322	3.872	61.601	1.00	30.99
ATOM	17372	NH2	ARG	2590	53.159	2.903	59.701	1.00	30.22
ATOM	17373	C	ARG	2590	52.346	9.183	57.556	1.00	22.50
ATOM	17374	O	ARG	2590	53.152	9.366	56.641	1.00	21.17
ATOM	17375	N	ILE	2591	51.040	9.073	57.342	1.00	20.92
ATOM	17376	CA	ILE	2591	50.493	9.150	55.993	1.00	19.61
ATOM	17377	CB	ILE	2591	49.023	8.673	55.980	1.00	20.34
ATOM	17378	CG2	ILE	2591	48.418	8.871	54.600	1.00	21.46
ATOM	17379	CG1	ILE	2591	48.971	7.206	56.395	1.00	20.56
ATOM	17380	CD1	ILE	2591	47.585	6.658	56.588	1.00	25.52
ATOM	17381	C	ILE	2591	50.591	10.552	55.410	1.00	20.03
ATOM	17382	O	ILE	2591	51.005	10.732	54.261	1.00	19.07
ATOM	17383	N	THR	2592	50.225	11.549	56.207	1.00	20.25
ATOM	17384	CA	THR	2592	50.276	12.928	55.749	1.00	22.08
ATOM	17385	CB	THR	2592	49.743	13.894	56.826	1.00	21.69
ATOM	17386	OG1	THR	2592	48.358	13.615	57.070	1.00	22.71
ATOM	17387	CG2	THR	2592	49.889	15.343	56.368	1.00	22.53
ATOM	17388	C	THR	2592	51.693	13.346	55.376	1.00	23.76
ATOM	17389	O	THR	2592	51.896	14.092	54.417	1.00	24.12
ATOM	17390	N	GLU	2593	52.676	12.871	56.129	1.00	25.91
ATOM	17391	CA	GLU	2593	54.059	13.227	55.834	1.00	27.67
ATOM	17392	CB	GLU	2593	54.936	13.023	57.071	1.00	29.33
ATOM	17393	CG	GLU	2593	54.427	13.761	58.299	1.00	33.19
ATOM	17394	CD	GLU	2593	55.367	13.650	59.486	1.00	36.93
ATOM	17395	OE1	GLU	2593	55.815	12.520	59.792	1.00	38.76
ATOM	17396	OE2	GLU	2593	55.649	14.689	60.121	1.00	38.10
ATOM	17397	C	GLU	2593	54.600	12.407	54.664	1.00	26.14
ATOM	17398	O	GLU	2593	55.381	12.911	53.855	1.00	26.29
ATOM	17399	N	ALA	2594	54.172	11.153	54.565	1.00	24.55
ATOM	17400	CA	ALA	2594	54.626	10.281	53.489	1.00	24.61
ATOM	17401	CB	ALA	2594	54.252	8.833	53.801	1.00	24.77
ATOM	17402	C	ALA	2594	54.088	10.679	52.115	1.00	24.72
ATOM	17403	O	ALA	2594	54.781	10.519	51.106	1.00	24.92
ATOM	17404	N	LEU	2595	52.862	11.198	52.069	1.00	23.86
ATOM	17405	CA	LEU	2595	52.259	11.602	50.796	1.00	23.39
ATOM	17406	CB	LEU	2595	50.739	11.377	50.818	1.00	23.16
ATOM	17407	CG	LEU	2595	50.211	9.935	50.851	1.00	25.00
ATOM	17408	CD1	LEU	2595	48.681	9.954	50.756	1.00	24.60
ATOM	17409	CD2	LEU	2595	50.781	9.145	49.698	1.00	27.49
ATOM	17410	C	LEU	2595	52.526	13.050	50.410	1.00	22.38
ATOM	17411	O	LEU	2595	52.590	13.934	51.260	1.00	22.82
ATOM	17412	N	ALA	2596	52.673	13.280	49.112	1.00	21.91
ATOM	17413	CA	ALA	2596	52.907	14.618	48.580	1.00	20.98
ATOM	17414	CB	ALA	2596	53.676	14.532	47.259	1.00	21.84
ATOM	17415	C	ALA	2596	51.551	15.284	48.358	1.00	21.83
ATOM	17416	O	ALA	2596	51.402	16.500	48.522	1.00	19.07
ATOM	17417	N	ILE	2597	50.563	14.477	47.972	1.00	22.36
ATOM	17418	CA	ILE	2597	49.206	14.975	47.744	1.00	22.38
ATOM	17419	CB	ILE	2597	48.329	13.917	47.038	1.00	20.84
ATOM	17420	CG2	ILE	2597	48.874	13.629	45.652	1.00	21.38
ATOM	17421	CG1	ILE	2597	48.274	12.642	47.887	1.00	20.61
ATOM	17422	CD1	ILE	2597	47.252	11.612	47.410	1.00	22.88
ATOM	17423	C	ILE	2597	48.556	15.315	49.084	1.00	23.26
ATOM	17424	O	ILE	2597	48.889	14.724	50.109	1.00	24.06
ATOM	17425	N	PRO	2598	47.618	16.276	49.091	1.00	24.26
ATOM	17426	CD	PRO	2598	47.190	17.134	47.973	1.00	24.78
ATOM	17427	CA	PRO	2598	46.951	16.657	50.339	1.00	24.43
ATOM	17428	CB	PRO	2598	46.158	17.908	49.946	1.00	24.29
ATOM	17429	CG	PRO	2598	45.908	17.716	48.487	1.00	27.18
ATOM	17430	C	PRO	2598	46.079	15.553	50.935	1.00	23.63

ATOM	17431	O	PRO	2598	45.401	14.813	50.218	1.00	23.16
ATOM	17432	N	VAL	2599	46.126	15.440	52.257	1.00	22.78
ATOM	17433	CA	VAL	2599	45.360	14.441	52.984	1.00	22.33
ATOM	17434	CB	VAL	2599	46.286	13.580	53.873	1.00	22.48
ATOM	17435	CG1	VAL	2599	45.475	12.535	54.623	1.00	22.67
ATOM	17436	CG2	VAL	2599	47.350	12.915	53.013	1.00	22.46
ATOM	17437	C	VAL	2599	44.311	15.133	53.857	1.00	23.71
ATOM	17438	O	VAL	2599	44.638	15.979	54.692	1.00	22.13
ATOM	17439	N	ILE	2600	43.048	14.779	53.642	1.00	21.85
ATOM	17440	CA	ILE	2600	41.944	15.360	54.397	1.00	20.33
ATOM	17441	CB	ILE	2600	40.774	15.719	53.459	1.00	19.87
ATOM	17442	CG2	ILE	2600	39.599	16.283	54.269	1.00	20.69
ATOM	17443	CG1	ILE	2600	41.265	16.720	52.409	1.00	22.41
ATOM	17444	CD1	ILE	2600	40.294	16.981	51.262	1.00	23.07
ATOM	17445	C	ILE	2600	41.492	14.343	55.429	1.00	19.49
ATOM	17446	O	ILE	2600	41.199	13.199	55.094	1.00	18.22
ATOM	17447	N	GLY	2601	41.442	14.754	56.690	1.00	19.36
ATOM	17448	CA	GLY	2601	41.053	13.813	57.715	1.00	18.13
ATOM	17449	C	GLY	2601	39.700	14.052	58.342	1.00	18.77
ATOM	17450	O	GLY	2601	39.154	15.155	58.303	1.00	18.02
ATOM	17451	N	ILE	2602	39.155	12.976	58.892	1.00	18.53
ATOM	17452	CA	ILE	2602	37.892	12.998	59.600	1.00	19.83
ATOM	17453	CB	ILE	2602	36.684	12.679	58.671	1.00	21.77
ATOM	17454	CG2	ILE	2602	36.964	11.449	57.822	1.00	21.95
ATOM	17455	CG1	ILE	2602	35.424	12.479	59.518	1.00	24.57
ATOM	17456	CD1	ILE	2602	35.090	13.650	60.403	1.00	27.84
ATOM	17457	C	ILE	2602	38.059	11.919	60.658	1.00	19.03
ATOM	17458	O	ILE	2602	38.075	10.724	60.354	1.00	20.33
ATOM	17459	N	GLY	2603	38.217	12.352	61.901	1.00	16.91
ATOM	17460	CA	GLY	2603	38.431	11.411	62.980	1.00	18.24
ATOM	17461	C	GLY	2603	39.864	10.914	62.930	1.00	18.71
ATOM	17462	O	GLY	2603	40.169	9.825	63.410	1.00	19.69
ATOM	17463	N	ALA	2604	40.743	11.717	62.335	1.00	20.83
ATOM	17464	CA	ALA	2604	42.160	11.363	62.210	1.00	22.46
ATOM	17465	CB	ALA	2604	42.534	11.229	60.735	1.00	21.76
ATOM	17466	C	ALA	2604	43.076	12.382	62.885	1.00	23.51
ATOM	17467	O	ALA	2604	44.292	12.370	62.671	1.00	23.26
ATOM	17468	N	GLY	2605	42.492	13.268	63.689	1.00	22.78
ATOM	17469	CA	GLY	2605	43.285	14.273	64.381	1.00	24.37
ATOM	17470	C	GLY	2605	43.540	15.523	63.560	1.00	23.63
ATOM	17471	O	GLY	2605	43.042	15.650	62.444	1.00	23.74
ATOM	17472	N	ASN	2606	44.322	16.453	64.102	1.00	22.37
ATOM	17473	CA	ASN	2606	44.610	17.696	63.391	1.00	22.84
ATOM	17474	CB	ASN	2606	44.614	18.884	64.368	1.00	24.03
ATOM	17475	CG	ASN	2606	45.751	18.816	65.384	1.00	27.25
ATOM	17476	OD1	ASN	2606	45.935	19.737	66.182	1.00	30.24
ATOM	17477	ND2	ASN	2606	46.513	17.729	65.360	1.00	21.63
ATOM	17478	C	ASN	2606	45.935	17.649	62.644	1.00	22.00
ATOM	17479	O	ASN	2606	46.428	18.680	62.185	1.00	22.27
ATOM	17480	N	VAL	2607	46.491	16.450	62.501	1.00	21.97
ATOM	17481	CA	VAL	2607	47.782	16.264	61.835	1.00	23.06
ATOM	17482	CB	VAL	2607	48.473	14.975	62.343	1.00	25.16
ATOM	17483	CG1	VAL	2607	49.896	14.903	61.813	1.00	30.68
ATOM	17484	CG2	VAL	2607	48.478	14.951	63.863	1.00	28.00
ATOM	17485	C	VAL	2607	47.698	16.210	60.308	1.00	22.15
ATOM	17486	O	VAL	2607	48.708	16.350	59.614	1.00	19.36
ATOM	17487	N	THR	2608	46.489	16.010	59.791	1.00	20.18
ATOM	17488	CA	THR	2608	46.273	15.945	58.354	1.00	18.55
ATOM	17489	CB	THR	2608	44.931	15.247	58.040	1.00	17.48
ATOM	17490	OG1	THR	2608	43.864	15.942	58.698	1.00	17.94
ATOM	17491	CG2	THR	2608	44.958	13.815	58.538	1.00	16.25
ATOM	17492	C	THR	2608	46.288	17.340	57.736	1.00	18.46
ATOM	17493	O	THR	2608	46.208	18.344	58.444	1.00	18.52
ATOM	17494	N	ASP	2609	46.392	17.392	56.414	1.00	18.90
ATOM	17495	CA	ASP	2609	46.438	18.653	55.685	1.00	19.61
ATOM	17496	CB	ASP	2609	46.858	18.384	54.238	1.00	20.80
ATOM	17497	CG	ASP	2609	48.209	17.698	54.143	1.00	22.85
ATOM	17498	OD1	ASP	2609	49.214	18.315	54.550	1.00	25.80
ATOM	17499	OD2	ASP	2609	48.269	16.544	53.662	1.00	25.46
ATOM	17500	C	ASP	2609	45.101	19.380	55.711	1.00	19.79
ATOM	17501	O	ASP	2609	45.051	20.607	55.693	1.00	18.76
ATOM	17502	N	GLY	2610	44.014	18.620	55.754	1.00	19.79
ATOM	17503	CA	GLY	2610	42.703	19.239	55.771	1.00	17.70
ATOM	17504	C	GLY	2610	41.726	18.492	56.646	1.00	14.64
ATOM	17505	O	GLY	2610	42.051	17.457	57.224	1.00	17.46
ATOM	17506	N	GLN	2611	40.516	19.024	56.752	1.00	17.50
ATOM	17507	CA	GLN	2611	39.482	18.398	57.559	1.00	17.89

ATOM	17508	CB	GLN	2611	39.268	19.190	58.853	1.00	19.92
ATOM	17509	CG	GLN	2611	40.465	19.210	59.799	1.00	20.42
ATOM	17510	CD	GLN	2611	40.848	17.829	60.291	1.00	22.00
ATOM	17511	OE1	GLN	2611	39.984	17.015	60.627	1.00	24.29
ATOM	17512	NE2	GLN	2611	42.148	17.561	60.354	1.00	19.83
ATOM	17513	C	GLN	2611	38.164	18.341	56.800	1.00	17.01
ATOM	17514	O	GLN	2611	37.911	19.151	55.905	1.00	17.06
ATOM	17515	N	ILE	2612	37.327	17.379	57.168	1.00	20.01
ATOM	17516	CA	ILE	2612	36.013	17.239	56.557	1.00	21.18
ATOM	17517	CB	ILE	2612	36.047	16.279	55.336	1.00	21.95
ATOM	17518	CG2	ILE	2612	36.253	14.835	55.791	1.00	17.51
ATOM	17519	CG1	ILE	2612	34.743	16.421	54.542	1.00	21.60
ATOM	17520	CD1	ILE	2612	34.855	15.977	53.097	1.00	22.16
ATOM	17521	C	ILE	2612	35.043	16.724	57.611	1.00	23.20
ATOM	17522	O	ILE	2612	35.435	16.034	58.559	1.00	23.34
ATOM	17523	N	LEU	2613	33.774	17.072	57.458	1.00	25.17
ATOM	17524	CA	LEU	2613	32.774	16.644	58.416	1.00	27.65
ATOM	17525	CB	LEU	2613	32.932	17.476	59.686	1.00	31.09
ATOM	17526	CG	LEU	2613	32.465	16.923	61.030	1.00	34.00
ATOM	17527	CD1	LEU	2613	32.834	17.930	62.111	1.00	34.54
ATOM	17528	CD2	LEU	2613	30.962	16.673	61.020	1.00	35.29
ATOM	17529	C	LEU	2613	31.382	16.842	57.821	1.00	27.54
ATOM	17530	O	LEU	2613	31.168	17.767	57.044	1.00	26.77
ATOM	17531	N	VAL	2614	30.450	15.961	58.173	1.00	27.38
ATOM	17532	CA	VAL	2614	29.087	16.073	57.678	1.00	27.05
ATOM	17533	CB	VAL	2614	28.210	14.890	58.141	1.00	28.19
ATOM	17534	CG1	VAL	2614	26.793	15.037	57.597	1.00	28.81
ATOM	17535	CG2	VAL	2614	28.825	13.577	57.671	1.00	28.09
ATOM	17536	C	VAL	2614	28.523	17.375	58.238	1.00	25.84
ATOM	17537	O	VAL	2614	28.502	17.590	59.449	1.00	26.11
ATOM	17538	N	MET	2615	28.085	18.251	57.344	1.00	24.55
ATOM	17539	CA	MET	2615	27.541	19.532	57.753	1.00	22.58
ATOM	17540	CB	MET	2615	26.987	20.274	56.546	1.00	20.69
ATOM	17541	CG	MET	2615	25.813	19.564	55.890	1.00	18.65
ATOM	17542	SD	MET	2615	24.658	20.775	55.265	1.00	19.02
ATOM	17543	CE	MET	2615	23.584	20.962	56.690	1.00	18.27
ATOM	17544	C	MET	2615	26.440	19.393	58.806	1.00	22.84
ATOM	17545	O	MET	2615	26.255	20.281	59.632	1.00	22.93
ATOM	17546	N	HIS	2616	25.701	18.288	58.776	1.00	21.47
ATOM	17547	CA	HIS	2616	24.627	18.100	59.737	1.00	21.54
ATOM	17548	CB	HIS	2616	23.741	16.930	59.314	1.00	21.41
ATOM	17549	CG	HIS	2616	23.013	17.181	58.030	1.00	18.70
ATOM	17550	CD2	HIS	2616	23.417	17.071	56.743	1.00	16.47
ATOM	17551	ND1	HIS	2616	21.736	17.697	57.987	1.00	20.75
ATOM	17552	CE1	HIS	2616	21.385	17.895	56.729	1.00	18.61
ATOM	17553	NE2	HIS	2616	22.388	17.524	55.955	1.00	20.61
ATOM	17554	C	HIS	2616	25.122	17.916	61.161	1.00	23.40
ATOM	17555	O	HIS	2616	24.420	18.266	62.113	1.00	21.84
ATOM	17556	N	ASP	2617	26.328	17.379	61.322	1.00	24.60
ATOM	17557	CA	ASP	2617	26.880	17.188	62.664	1.00	28.05
ATOM	17558	CB	ASP	2617	27.918	16.060	62.677	1.00	29.84
ATOM	17559	CG	ASP	2617	27.311	14.703	62.396	1.00	32.71
ATOM	17560	OD1	ASP	2617	26.339	14.322	63.088	1.00	30.70
ATOM	17561	OD2	ASP	2617	27.818	14.012	61.487	1.00	34.71
ATOM	17562	C	ASP	2617	27.535	18.473	63.153	1.00	28.63
ATOM	17563	O	ASP	2617	27.681	18.679	64.356	1.00	30.14
ATOM	17564	N	ALA	2618	27.928	19.333	62.217	1.00	29.76
ATOM	17565	CA	ALA	2618	28.577	20.593	62.561	1.00	31.50
ATOM	17566	CB	ALA	2618	29.311	21.152	61.339	1.00	30.82
ATOM	17567	C	ALA	2618	27.606	21.635	63.116	1.00	32.49
ATOM	17568	O	ALA	2618	28.029	22.630	63.707	1.00	33.61
ATOM	17569	N	PHE	2619	26.308	21.411	62.931	1.00	33.51
ATOM	17570	CA	PHE	2619	25.311	22.350	63.436	1.00	33.26
ATOM	17571	CB	PHE	2619	24.524	22.962	62.280	1.00	35.56
ATOM	17572	CG	PHE	2619	25.394	23.485	61.174	1.00	37.64
ATOM	17573	CD1	PHE	2619	26.457	24.336	61.452	1.00	39.02
ATOM	17574	CD2	PHE	2619	25.156	23.119	59.852	1.00	38.68
ATOM	17575	CE1	PHE	2619	27.277	24.814	60.432	1.00	39.78
ATOM	17576	CE2	PHE	2619	25.969	23.591	58.821	1.00	39.59
ATOM	17577	CZ	PHE	2619	27.030	24.439	59.114	1.00	40.73
ATOM	17578	C	PHE	2619	24.359	21.694	64.423	1.00	32.67
ATOM	17579	O	PHE	2619	23.247	22.173	64.642	1.00	33.99
ATOM	17580	N	GLY	2620	24.806	20.596	65.023	1.00	33.38
ATOM	17581	CA	GLY	2620	23.989	19.889	65.996	1.00	32.34
ATOM	17582	C	GLY	2620	22.618	19.483	65.490	1.00	32.02
ATOM	17583	O	GLY	2620	21.715	19.214	66.283	1.00	32.91
ATOM	17584	N	ILE	2621	22.454	19.435	64.172	1.00	30.10

ATOM	17585	CA	ILE	2621	21.176	19.046	63.589	1.00	29.00
ATOM	17586	CB	ILE	2621	21.170	19.248	62.057	1.00	26.35
ATOM	17587	CG2	ILE	2621	19.867	18.713	61.464	1.00	25.62
ATOM	17588	CG1	ILE	2621	21.332	20.730	61.729	1.00	24.08
ATOM	17589	CD1	ILE	2621	21.695	21.009	60.295	1.00	24.54
ATOM	17590	C	ILE	2621	20.900	17.581	63.895	1.00	30.31
ATOM	17591	O	ILE	2621	19.780	17.209	64.224	1.00	29.60
ATOM	17592	N	THR	2622	21.936	16.756	63.799	1.00	32.59
ATOM	17593	CA	THR	2622	21.794	15.329	64.053	1.00	35.67
ATOM	17594	CB	THR	2622	23.035	14.556	63.560	1.00	35.42
ATOM	17595	OG1	THR	2622	24.141	14.813	64.434	1.00	36.19
ATOM	17596	CG2	THR	2622	23.407	15.005	62.158	1.00	31.84
ATOM	17597	C	THR	2622	21.581	15.037	65.535	1.00	38.18
ATOM	17598	O	THR	2622	22.311	15.549	66.383	1.00	38.40
ATOM	17599	N	GLY	2623	20.571	14.220	65.827	1.00	41.10
ATOM	17600	CA	GLY	2623	20.252	13.844	67.194	1.00	46.07
ATOM	17601	C	GLY	2623	20.921	14.664	68.279	1.00	49.46
ATOM	17602	O	GLY	2623	20.755	15.884	68.342	1.00	50.21
ATOM	17603	N	GLY	2624	21.685	13.992	69.135	1.00	51.80
ATOM	17604	CA	GLY	2624	22.370	14.681	70.213	1.00	53.86
ATOM	17605	C	GLY	2624	23.726	14.086	70.538	1.00	55.07
ATOM	17606	O	GLY	2624	24.670	14.811	70.856	1.00	56.17
ATOM	17607	N	HIS	2625	23.829	12.763	70.461	1.00	55.75
ATOM	17608	CA	HIS	2625	25.088	12.087	70.754	1.00	56.39
ATOM	17609	CB	HIS	2625	24.817	10.702	71.352	1.00	58.60
ATOM	17610	CG	HIS	2625	24.122	10.744	72.678	1.00	61.61
ATOM	17611	CD2	HIS	2625	22.939	10.223	73.083	1.00	62.23
ATOM	17612	ND1	HIS	2625	24.651	11.389	73.776	1.00	62.65
ATOM	17613	CE1	HIS	2625	23.825	11.264	74.799	1.00	62.69
ATOM	17614	NE2	HIS	2625	22.778	10.561	74.406	1.00	63.05
ATOM	17615	C	HIS	2625	25.957	11.959	69.504	1.00	55.11
ATOM	17616	O	HIS	2625	26.250	10.852	69.053	1.00	55.29
ATOM	17617	N	ILE	2626	26.368	13.099	68.953	1.00	53.22
ATOM	17618	CA	ILE	2626	27.207	13.123	67.756	1.00	50.84
ATOM	17619	CB	ILE	2626	27.596	14.566	67.365	1.00	51.18
ATOM	17620	CG2	ILE	2626	26.352	15.369	67.024	1.00	52.29
ATOM	17621	CG1	ILE	2626	28.377	15.218	68.508	1.00	50.93
ATOM	17622	CD1	ILE	2626	29.050	16.524	68.131	1.00	51.04
ATOM	17623	C	ILE	2626	28.494	12.335	67.984	1.00	47.86
ATOM	17624	O	ILE	2626	28.875	12.067	69.122	1.00	47.90
ATOM	17625	N	PRO	2627	29.189	11.963	66.899	1.00	45.93
ATOM	17626	CD	PRO	2627	28.901	12.266	65.485	1.00	45.13
ATOM	17627	CA	PRO	2627	30.436	11.203	67.026	1.00	43.64
ATOM	17628	CB	PRO	2627	30.801	10.904	65.574	1.00	43.90
ATOM	17629	CG	PRO	2627	30.254	12.089	64.843	1.00	45.31
ATOM	17630	C	PRO	2627	31.533	11.973	67.762	1.00	41.87
ATOM	17631	O	PRO	2627	31.599	13.198	67.687	1.00	41.53
ATOM	17632	N	LYS	2628	32.390	11.243	68.472	1.00	40.14
ATOM	17633	CA	LYS	2628	33.486	11.846	69.224	1.00	39.09
ATOM	17634	CB	LYS	2628	34.362	10.759	69.864	1.00	41.61
ATOM	17635	CG	LYS	2628	34.081	10.500	71.340	1.00	44.14
ATOM	17636	CD	LYS	2628	32.661	9.998	71.567	1.00	46.92
ATOM	17637	CE	LYS	2628	32.359	9.839	73.051	1.00	47.79
ATOM	17638	NZ	LYS	2628	30.956	9.403	73.304	1.00	49.12
ATOM	17639	C	LYS	2628	34.372	12.748	68.376	1.00	36.45
ATOM	17640	O	LYS	2628	34.905	13.743	68.865	1.00	36.12
ATOM	17641	N	PHE	2629	34.531	12.405	67.103	1.00	32.52
ATOM	17642	CA	PHE	2629	35.387	13.189	66.224	1.00	29.15
ATOM	17643	CB	PHE	2629	35.876	12.319	65.057	1.00	29.64
ATOM	17644	CG	PHE	2629	34.772	11.753	64.216	1.00	29.08
ATOM	17645	CD1	PHE	2629	34.068	12.561	63.328	1.00	29.61
ATOM	17646	CD2	PHE	2629	34.431	10.411	64.318	1.00	30.24
ATOM	17647	CE1	PHE	2629	33.035	12.036	62.550	1.00	32.08
ATOM	17648	CE2	PHE	2629	33.403	9.873	63.550	1.00	32.17
ATOM	17649	CZ	PHE	2629	32.702	10.688	62.661	1.00	31.61
ATOM	17650	C	PHE	2629	34.742	14.458	65.692	1.00	26.59
ATOM	17651	O	PHE	2629	35.426	15.316	65.135	1.00	24.60
ATOM	17652	N	ALA	2630	33.432	14.587	65.869	1.00	24.68
ATOM	17653	CA	ALA	2630	32.720	15.764	65.388	1.00	24.35
ATOM	17654	CB	ALA	2630	31.342	15.359	64.856	1.00	24.75
ATOM	17655	C	ALA	2630	32.559	16.822	66.473	1.00	23.16
ATOM	17656	O	ALA	2630	32.719	16.539	67.659	1.00	23.58
ATOM	17657	N	LYS	2631	32.252	18.043	66.046	1.00	23.38
ATOM	17658	CA	LYS	2631	32.039	19.164	66.955	1.00	23.65
ATOM	17659	CB	LYS	2631	33.319	19.993	67.105	1.00	23.84
ATOM	17660	CG	LYS	2631	33.127	21.250	67.947	1.00	25.08
ATOM	17661	CD	LYS	2631	34.435	21.990	68.159	1.00	25.96

ATOM	17662	CE	LYS	2631	34.227	23.261	68.968	1.00	28.22
ATOM	17663	NZ	LYS	2631	35.499	24.020	69.116	1.00	29.85
ATOM	17664	C	LYS	2631	30.921	20.068	66.444	1.00	22.92
ATOM	17665	O	LYS	2631	30.885	20.422	65.263	1.00	21.69
ATOM	17666	N	ASN	2632	30.015	20.436	67.345	1.00	23.42
ATOM	17667	CA	ASN	2632	28.889	21.310	67.026	1.00	22.87
ATOM	17668	CB	ASN	2632	27.771	21.121	68.058	1.00	22.06
ATOM	17669	CG	ASN	2632	26.566	22.005	67.792	1.00	22.77
ATOM	17670	OD1	ASN	2632	26.626	22.943	66.994	1.00	23.52
ATOM	17671	ND2	ASN	2632	25.463	21.716	68.475	1.00	20.23
ATOM	17672	C	ASN	2632	29.384	22.748	67.080	1.00	22.32
ATOM	17673	O	ASN	2632	29.559	23.306	68.167	1.00	22.04
ATOM	17674	N	PHE	2633	29.617	23.348	65.918	1.00	20.88
ATOM	17675	CA	PHE	2633	30.103	24.724	65.871	1.00	22.92
ATOM	17676	CB	PHE	2633	30.879	24.987	64.576	1.00	23.76
ATOM	17677	CG	PHE	2633	32.182	24.245	64.492	1.00	25.62
ATOM	17678	CD1	PHE	2633	32.224	22.938	64.020	1.00	25.78
ATOM	17679	CD2	PHE	2633	33.363	24.837	64.933	1.00	25.99
ATOM	17680	CE1	PHE	2633	33.421	22.229	63.988	1.00	25.39
ATOM	17681	CE2	PHE	2633	34.565	24.138	64.908	1.00	24.67
ATOM	17682	CZ	PHE	2633	34.593	22.831	64.435	1.00	27.61
ATOM	17683	C	PHE	2633	29.002	25.762	66.021	1.00	23.51
ATOM	17684	O	PHE	2633	29.287	26.940	66.230	1.00	22.07
ATOM	17685	N	LEU	2634	27.748	25.329	65.917	1.00	23.90
ATOM	17686	CA	LEU	2634	26.625	26.246	66.056	1.00	25.40
ATOM	17687	CB	LEU	2634	25.351	25.628	65.485	1.00	23.46
ATOM	17688	CG	LEU	2634	24.073	26.438	65.713	1.00	19.60
ATOM	17689	CD1	LEU	2634	24.167	27.786	65.009	1.00	19.80
ATOM	17690	CD2	LEU	2634	22.876	25.651	65.185	1.00	17.49
ATOM	17691	C	LEU	2634	26.397	26.597	67.521	1.00	28.16
ATOM	17692	O	LEU	2634	26.108	27.748	67.853	1.00	27.99
ATOM	17693	N	ALA	2635	26.516	25.592	68.384	1.00	30.92
ATOM	17694	CA	ALA	2635	26.326	25.760	69.820	1.00	36.08
ATOM	17695	CB	ALA	2635	26.545	24.434	70.529	1.00	35.24
ATOM	17696	C	ALA	2635	27.297	26.801	70.356	1.00	40.21
ATOM	17697	O	ALA	2635	26.965	27.569	71.260	1.00	41.94
ATOM	17698	N	GLU	2636	28.498	26.812	69.786	1.00	43.52
ATOM	17699	CA	GLU	2636	29.550	27.748	70.170	1.00	47.26
ATOM	17700	CB	GLU	2636	30.885	27.313	69.550	1.00	48.66
ATOM	17701	CG	GLU	2636	31.220	25.832	69.730	1.00	52.15
ATOM	17702	CD	GLU	2636	31.594	25.471	71.158	1.00	53.80
ATOM	17703	OE1	GLU	2636	30.830	25.815	72.085	1.00	55.93
ATOM	17704	OE2	GLU	2636	32.652	24.834	71.354	1.00	54.50
ATOM	17705	C	GLU	2636	29.183	29.147	69.670	1.00	47.91
ATOM	17706	O	GLU	2636	30.017	30.052	69.645	1.00	48.49
ATOM	17707	N	THR	2637	27.927	29.306	69.263	1.00	48.71
ATOM	17708	CA	THR	2637	27.418	30.575	68.764	1.00	48.27
ATOM	17709	CB	THR	2637	28.031	30.914	67.384	1.00	48.89
ATOM	17710	OG1	THR	2637	27.518	32.171	66.927	1.00	48.26
ATOM	17711	CG2	THR	2637	27.693	29.833	66.365	1.00	49.85
ATOM	17712	C	THR	2637	25.894	30.501	68.636	1.00	47.68
ATOM	17713	O	THR	2637	25.236	29.744	69.356	1.00	48.21
ATOM	17714	N	GLY	2638	25.336	31.289	67.724	1.00	45.54
ATOM	17715	CA	GLY	2638	23.898	31.283	67.526	1.00	43.10
ATOM	17716	C	GLY	2638	23.555	31.571	66.082	1.00	40.35
ATOM	17717	O	GLY	2638	22.403	31.851	65.749	1.00	40.49
ATOM	17718	N	ASP	2639	24.567	31.487	65.224	1.00	37.74
ATOM	17719	CA	ASP	2639	24.411	31.755	63.799	1.00	35.76
ATOM	17720	CB	ASP	2639	25.025	33.116	63.469	1.00	39.24
ATOM	17721	CG	ASP	2639	24.688	33.573	62.078	1.00	41.90
ATOM	17722	OD1	ASP	2639	25.570	34.144	61.405	1.00	42.76
ATOM	17723	OD2	ASP	2639	23.526	33.367	61.662	1.00	46.27
ATOM	17724	C	ASP	2639	25.110	30.676	62.967	1.00	32.25
ATOM	17725	O	ASP	2639	26.276	30.361	63.206	1.00	30.44
ATOM	17726	N	ILE	2640	24.409	30.119	61.985	1.00	28.72
ATOM	17727	CA	ILE	2640	25.005	29.083	61.149	1.00	25.76
ATOM	17728	CB	ILE	2640	23.959	28.470	60.176	1.00	25.25
ATOM	17729	CG2	ILE	2640	24.657	27.628	59.111	1.00	23.48
ATOM	17730	CG1	ILE	2640	22.952	27.638	60.969	1.00	22.50
ATOM	17731	CD1	ILE	2640	21.751	27.150	60.161	1.00	23.27
ATOM	17732	C	ILE	2640	26.204	29.612	60.358	1.00	25.06
ATOM	17733	O	ILE	2640	27.251	28.963	60.299	1.00	25.46
ATOM	17734	N	ARG	2641	26.061	30.785	59.752	1.00	24.74
ATOM	17735	CA	ARG	2641	27.169	31.356	58.993	1.00	23.19
ATOM	17736	CB	ARG	2641	26.739	32.642	58.285	1.00	22.91
ATOM	17737	CG	ARG	2641	25.858	32.392	57.077	1.00	25.25
ATOM	17738	CD	ARG	2641	25.407	33.687	56.433	1.00	24.40

ATOM	17739	NE	ARG	2641	24.650	33.441	55.210	1.00	27.34
ATOM	17740	CZ	ARG	2641	23.453	32.863	55.166	1.00	26.81
ATOM	17741	NH1	ARG	2641	22.858	32.468	56.283	1.00	25.30
ATOM	17742	NH2	ARG	2641	22.854	32.674	53.996	1.00	28.38
ATOM	17743	C	ARG	2641	28.348	31.635	59.917	1.00	23.31
ATOM	17744	O	ARG	2641	29.508	31.524	59.511	1.00	20.74
ATOM	17745	N	ALA	2642	28.047	31.992	61.162	1.00	23.35
ATOM	17746	CA	ALA	2642	29.089	32.253	62.143	1.00	25.68
ATOM	17747	CB	ALA	2642	28.484	32.881	63.404	1.00	26.54
ATOM	17748	C	ALA	2642	29.765	30.929	62.484	1.00	26.20
ATOM	17749	O	ALA	2642	30.979	30.874	62.687	1.00	26.09
ATOM	17750	N	ALA	2643	28.972	29.861	62.538	1.00	24.61
ATOM	17751	CA	ALA	2643	29.504	28.538	62.847	1.00	24.08
ATOM	17752	CB	ALA	2643	28.360	27.535	62.989	1.00	25.00
ATOM	17753	C	ALA	2643	30.460	28.098	61.738	1.00	23.31
ATOM	17754	O	ALA	2643	31.491	27.492	62.008	1.00	22.53
ATOM	17755	N	VAL	2644	30.107	28.413	60.494	1.00	23.63
ATOM	17756	CA	VAL	2644	30.932	28.066	59.340	1.00	23.56
ATOM	17757	CB	VAL	2644	30.262	28.501	58.019	1.00	23.61
ATOM	17758	CG1	VAL	2644	31.193	28.248	56.850	1.00	23.86
ATOM	17759	CG2	VAL	2644	28.953	27.737	57.817	1.00	24.12
ATOM	17760	C	VAL	2644	32.287	28.762	59.443	1.00	25.21
ATOM	17761	O	VAL	2644	33.332	28.135	59.290	1.00	23.86
ATOM	17762	N	ARG	2645	32.257	30.066	59.689	1.00	24.95
ATOM	17763	CA	ARG	2645	33.478	30.846	59.828	1.00	27.28
ATOM	17764	CB	ARG	2645	33.136	32.318	60.084	1.00	27.82
ATOM	17765	CG	ARG	2645	32.446	33.015	58.922	1.00	28.30
ATOM	17766	CD	ARG	2645	32.294	34.509	59.187	1.00	32.06
ATOM	17767	NE	ARG	2645	31.361	34.790	60.279	1.00	34.28
ATOM	17768	CZ	ARG	2645	30.060	35.018	60.120	1.00	36.23
ATOM	17769	NH1	ARG	2645	29.522	35.002	58.906	1.00	34.78
ATOM	17770	NH2	ARG	2645	29.297	35.265	61.177	1.00	37.25
ATOM	17771	C	ARG	2645	34.340	30.303	60.970	1.00	27.28
ATOM	17772	O	ARG	2645	35.561	30.227	60.849	1.00	29.76
ATOM	17773	N	GLN	2646	33.702	29.918	62.072	1.00	27.84
ATOM	17774	CA	GLN	2646	34.411	29.384	63.233	1.00	27.15
ATOM	17775	CB	GLN	2646	33.428	29.144	64.384	1.00	31.32
ATOM	17776	CG	GLN	2646	34.082	28.858	65.726	1.00	36.87
ATOM	17777	CD	GLN	2646	33.092	28.337	66.757	1.00	41.60
ATOM	17778	OE1	GLN	2646	31.974	28.849	66.878	1.00	45.33
ATOM	17779	NE2	GLN	2646	33.503	27.319	67.512	1.00	43.04
ATOM	17780	C	GLN	2646	35.108	28.074	62.879	1.00	27.46
ATOM	17781	O	GLN	2646	36.251	27.835	63.275	1.00	24.55
ATOM	17782	N	TYR	2647	34.406	27.222	62.135	1.00	24.93
ATOM	17783	CA	TYR	2647	34.946	25.936	61.719	1.00	23.55
ATOM	17784	CB	TYR	2647	33.881	25.159	60.934	1.00	22.15
ATOM	17785	CG	TYR	2647	34.399	23.949	60.194	1.00	20.81
ATOM	17786	CD1	TYR	2647	35.147	22.972	60.848	1.00	22.12
ATOM	17787	CE1	TYR	2647	35.599	21.833	60.171	1.00	22.90
ATOM	17788	CD2	TYR	2647	34.113	23.764	58.846	1.00	21.36
ATOM	17789	CE2	TYR	2647	34.555	22.632	58.160	1.00	21.37
ATOM	17790	CZ	TYR	2647	35.296	21.675	58.827	1.00	23.37
ATOM	17791	OH	TYR	2647	35.742	20.558	58.149	1.00	23.07
ATOM	17792	C	TYR	2647	36.195	26.131	60.861	1.00	23.03
ATOM	17793	O	TYR	2647	37.210	25.465	61.064	1.00	22.24
ATOM	17794	N	MET	2648	36.112	27.053	59.909	1.00	23.54
ATOM	17795	CA	MET	2648	37.233	27.341	59.023	1.00	24.40
ATOM	17796	CB	MET	2648	36.817	28.368	57.968	1.00	24.61
ATOM	17797	CG	MET	2648	35.748	27.868	57.000	1.00	25.72
ATOM	17798	SD	MET	2648	35.032	29.213	56.049	1.00	29.67
ATOM	17799	CE	MET	2648	36.345	29.525	54.905	1.00	29.14
ATOM	17800	C	MET	2648	38.420	27.870	59.816	1.00	25.45
ATOM	17801	O	MET	2648	39.573	27.589	59.490	1.00	25.58
ATOM	17802	N	ALA	2649	38.133	28.636	60.861	1.00	25.72
ATOM	17803	CA	ALA	2649	39.188	29.208	61.690	1.00	25.41
ATOM	17804	CB	ALA	2649	38.609	30.311	62.575	1.00	23.43
ATOM	17805	C	ALA	2649	39.901	28.165	62.552	1.00	25.02
ATOM	17806	O	ALA	2649	41.131	28.091	62.557	1.00	25.14
ATOM	17807	N	GLU	2650	39.133	27.361	63.280	1.00	25.28
ATOM	17808	CA	GLU	2650	39.715	26.346	64.152	1.00	26.69
ATOM	17809	CB	GLU	2650	38.622	25.662	64.981	1.00	28.05
ATOM	17810	CG	GLU	2650	38.206	26.465	66.208	1.00	29.62
ATOM	17811	CD	GLU	2650	37.113	25.799	67.014	1.00	29.84
ATOM	17812	OE1	GLU	2650	37.152	24.562	67.173	1.00	32.30
ATOM	17813	OE2	GLU	2650	36.221	26.518	67.506	1.00	33.86
ATOM	17814	C	GLU	2650	40.539	25.296	63.418	1.00	26.90
ATOM	17815	O	GLU	2650	41.482	24.738	63.980	1.00	27.32



ATOM	17816	N	VAL	2651	40.181	25.021	62.168	1.00	26.19
ATOM	17817	CA	VAL	2651	40.914	24.042	61.380	1.00	25.27
ATOM	17818	CB	VAL	2651	40.163	23.681	60.078	1.00	24.96
ATOM	17819	CG1	VAL	2651	41.063	22.849	59.179	1.00	23.48
ATOM	17820	CG2	VAL	2651	38.891	22.900	60.411	1.00	23.49
ATOM	17821	C	VAL	2651	42.296	24.576	61.010	1.00	25.94
ATOM	17822	O	VAL	2651	43.279	23.836	61.032	1.00	25.81
ATOM	17823	N	GLU	2652	42.362	25.863	60.683	1.00	27.40
ATOM	17824	CA	GLU	2652	43.616	26.493	60.293	1.00	30.89
ATOM	17825	CB	GLU	2652	43.345	27.865	59.665	1.00	31.68
ATOM	17826	CG	GLU	2652	44.595	28.556	59.129	1.00	36.32
ATOM	17827	CD	GLU	2652	44.282	29.686	58.159	1.00	39.22
ATOM	17828	OE1	GLU	2652	45.229	30.374	57.715	1.00	40.91
ATOM	17829	OE2	GLU	2652	43.091	29.885	57.836	1.00	40.55
ATOM	17830	C	GLU	2652	44.614	26.638	61.438	1.00	32.09
ATOM	17831	O	GLU	2652	45.791	26.305	61.290	1.00	32.01
ATOM	17832	N	SER	2653	44.146	27.125	62.582	1.00	34.17
ATOM	17833	CA	SER	2653	45.026	27.310	63.727	1.00	36.02
ATOM	17834	CB	SER	2653	44.427	28.338	64.687	1.00	39.04
ATOM	17835	OG	SER	2653	44.357	29.613	64.066	1.00	44.62
ATOM	17836	C	SER	2653	45.317	26.001	64.454	1.00	35.06
ATOM	17837	O	SER	2653	46.243	25.923	65.262	1.00	36.58
ATOM	17838	N	GLY	2654	44.528	24.971	64.165	1.00	33.11
ATOM	17839	CA	GLY	2654	44.754	23.679	64.789	1.00	29.91
ATOM	17840	C	GLY	2654	43.918	23.352	66.012	1.00	27.78
ATOM	17841	O	GLY	2654	44.111	22.302	66.625	1.00	30.35
ATOM	17842	N	VAL	2655	42.999	24.239	66.376	1.00	26.05
ATOM	17843	CA	VAL	2655	42.129	24.020	67.529	1.00	24.30
ATOM	17844	CB	VAL	2655	41.290	25.277	67.832	1.00	25.65
ATOM	17845	CG1	VAL	2655	40.191	24.946	68.833	1.00	27.96
ATOM	17846	CG2	VAL	2655	42.196	26.371	68.399	1.00	26.98
ATOM	17847	C	VAL	2655	41.190	22.839	67.288	1.00	23.05
ATOM	17848	O	VAL	2655	40.821	22.125	68.221	1.00	19.84
ATOM	17849	N	TYR	2656	40.807	22.644	66.030	1.00	23.31
ATOM	17850	CA	TYR	2656	39.926	21.541	65.659	1.00	23.29
ATOM	17851	CB	TYR	2656	38.554	22.054	65.203	1.00	24.58
ATOM	17852	CG	TYR	2656	37.625	20.927	64.795	1.00	26.25
ATOM	17853	CD1	TYR	2656	37.053	20.092	65.755	1.00	26.34
ATOM	17854	CE1	TYR	2656	36.272	19.000	65.389	1.00	27.58
ATOM	17855	CD2	TYR	2656	37.384	20.646	63.450	1.00	26.60
ATOM	17856	CE2	TYR	2656	36.602	19.553	63.069	1.00	26.50
ATOM	17857	CZ	TYR	2656	36.052	18.734	64.048	1.00	28.77
ATOM	17858	OH	TYR	2656	35.298	17.633	63.693	1.00	29.76
ATOM	17859	C	TYR	2656	40.539	20.739	64.520	1.00	22.07
ATOM	17860	O	TYR	2656	40.971	21.308	63.519	1.00	21.40
ATOM	17861	N	PRO	2657	40.575	19.407	64.659	1.00	23.11
ATOM	17862	CD	PRO	2657	40.839	18.474	63.551	1.00	25.30
ATOM	17863	CA	PRO	2657	40.064	18.682	65.827	1.00	25.15
ATOM	17864	CB	PRO	2657	39.863	17.266	65.293	1.00	25.49
ATOM	17865	CG	PRO	2657	40.930	17.153	64.267	1.00	26.67
ATOM	17866	C	PRO	2657	40.987	18.704	67.047	1.00	26.33
ATOM	17867	O	PRO	2657	42.194	18.937	66.934	1.00	24.35
ATOM	17868	N	GLY	2658	40.402	18.451	68.212	1.00	28.19
ATOM	17869	CA	GLY	2658	41.175	18.424	69.435	1.00	29.27
ATOM	17870	C	GLY	2658	41.405	16.990	69.870	1.00	31.45
ATOM	17871	O	GLY	2658	41.011	16.048	69.175	1.00	29.26
ATOM	17872	N	GLU	2659	42.039	16.825	71.025	1.00	31.72
ATOM	17873	CA	GLU	2659	42.328	15.506	71.568	1.00	33.60
ATOM	17874	CB	GLU	2659	43.166	15.638	72.845	1.00	35.63
ATOM	17875	CG	GLU	2659	43.629	14.310	73.412	1.00	38.07
ATOM	17876	CD	GLU	2659	44.583	13.585	72.476	1.00	40.89
ATOM	17877	OE1	GLU	2659	44.763	12.360	72.642	1.00	41.36
ATOM	17878	OE2	GLU	2659	45.156	14.245	71.582	1.00	41.02
ATOM	17879	C	GLU	2659	41.043	14.746	71.874	1.00	33.45
ATOM	17880	O	GLU	2659	41.012	13.514	71.823	1.00	33.66
ATOM	17881	N	GLU	2660	39.981	15.484	72.193	1.00	34.34
ATOM	17882	CA	GLU	2660	38.692	14.869	72.507	1.00	34.69
ATOM	17883	CB	GLU	2660	37.738	15.890	73.136	1.00	36.58
ATOM	17884	CG	GLU	2660	38.416	17.063	73.818	1.00	41.62
ATOM	17885	CD	GLU	2660	38.836	18.147	72.839	1.00	43.50
ATOM	17886	OE1	GLU	2660	37.945	18.737	72.186	1.00	43.66
ATOM	17887	OE2	GLU	2660	40.055	18.409	72.727	1.00	44.50
ATOM	17888	C	GLU	2660	38.057	14.328	71.233	1.00	33.13
ATOM	17889	O	GLU	2660	37.165	13.482	71.287	1.00	33.50
ATOM	17890	N	HIS	2661	38.526	14.827	70.093	1.00	31.20
ATOM	17891	CA	HIS	2661	38.010	14.415	68.792	1.00	29.37
ATOM	17892	CB	HIS	2661	37.777	15.643	67.903	1.00	29.29

ATOM	17893	CG	HIS	2661	36.937	16.708	68.537	1.00	29.26
ATOM	17894	CD2	HIS	2661	37.231	17.984	68.884	1.00	28.56
ATOM	17895	ND1	HIS	2661	35.613	16.517	68.868	1.00	29.92
ATOM	17896	CE1	HIS	2661	35.126	17.630	69.391	1.00	29.59
ATOM	17897	NE2	HIS	2661	36.088	18.535	69.411	1.00	28.86
ATOM	17898	C	HIS	2661	38.983	13.480	68.076	1.00	28.74
ATOM	17899	O	HIS	2661	38.755	13.119	66.924	1.00	28.41
ATOM	17900	N	SER	2662	40.055	13.088	68.761	1.00	27.65
ATOM	17901	CA	SER	2662	41.077	12.226	68.171	1.00	27.75
ATOM	17902	CB	SER	2662	42.453	12.873	68.346	1.00	24.62
ATOM	17903	OG	SER	2662	42.507	14.139	67.714	1.00	24.83
ATOM	17904	C	SER	2662	41.128	10.800	68.711	1.00	27.87
ATOM	17905	O	SER	2662	40.798	10.541	69.872	1.00	28.57
ATOM	17906	N	PHE	2663	41.562	9.876	67.857	1.00	27.35
ATOM	17907	CA	PHE	2663	41.680	8.472	68.231	1.00	27.58
ATOM	17908	CB	PHE	2663	40.990	7.581	67.195	1.00	28.72
ATOM	17909	CG	PHE	2663	39.507	7.795	67.099	1.00	28.64
ATOM	17910	CD1	PHE	2663	38.948	8.405	65.980	1.00	28.22
ATOM	17911	CD2	PHE	2663	38.664	7.369	68.123	1.00	28.60
ATOM	17912	CE1	PHE	2663	37.568	8.585	65.879	1.00	28.53
ATOM	17913	CE2	PHE	2663	37.284	7.545	68.033	1.00	28.38
ATOM	17914	CZ	PHE	2663	36.736	8.152	66.909	1.00	27.60
ATOM	17915	C	PHE	2663	43.147	8.070	68.337	1.00	29.19
ATOM	17916	O	PHE	2663	44.009	8.662	67.693	1.00	28.67
ATOM	17917	N	HIS	2664	43.425	7.061	69.154	1.00	30.62
ATOM	17918	CA	HIS	2664	44.793	6.580	69.335	1.00	33.11
ATOM	17919	CB	HIS	2664	45.390	7.136	70.631	1.00	32.47
ATOM	17920	CG	HIS	2664	45.696	8.600	70.569	1.00	31.82
ATOM	17921	CD2	HIS	2664	45.143	9.657	71.209	1.00	31.31
ATOM	17922	ND1	HIS	2664	46.670	9.119	69.743	1.00	31.66
ATOM	17923	CE1	HIS	2664	46.704	10.433	69.877	1.00	32.26
ATOM	17924	NE2	HIS	2664	45.787	10.785	70.761	1.00	31.44
ATOM	17925	C	HIS	2664	44.850	5.060	69.347	1.00	34.16
ATOM	17926	O	HIS	2664	45.924	4.517	69.013	1.00	34.77
ATOM	17927	OXT	HIS	2664	43.825	4.436	69.698	1.00	34.27
ATOM	17928	C1	KPL	2665	32.243	11.877	55.862	1.00	40.79
ATOM	17929	C2	KPL	2665	32.961	11.755	54.501	1.00	41.02
ATOM	17930	C3	KPL	2665	33.077	13.146	53.870	1.00	41.20
ATOM	17931	C4	KPL	2665	34.387	11.202	54.712	1.00	42.66
ATOM	17932	O1	KPL	2665	34.336	9.899	55.310	1.00	45.13
ATOM	17933	C5	KPL	2665	32.150	10.836	53.550	1.00	39.59
ATOM	17934	O2	KPL	2665	32.663	9.838	53.081	1.00	38.96
ATOM	17935	C6	KPL	2665	30.715	11.146	53.180	1.00	37.68
ATOM	17936	O3	KPL	2665	30.159	12.135	53.620	1.00	35.87
ATOM	17937	O4	KPL	2665	30.039	10.319	52.357	1.00	34.01
ATOM	17938	CB	MET	2701	34.899	19.058	-4.231	1.00	73.64
ATOM	17939	CG	MET	2701	35.731	17.961	-3.594	1.00	74.75
ATOM	17940	SD	MET	2701	37.148	17.478	-4.583	1.00	76.63
ATOM	17941	CE	MET	2701	36.494	16.017	-5.398	1.00	76.51
ATOM	17942	C	MET	2701	32.655	18.015	-4.580	1.00	71.20
ATOM	17943	O	MET	2701	31.627	18.329	-5.182	1.00	71.65
ATOM	17944	N	MET	2701	33.341	18.824	-2.319	1.00	71.84
ATOM	17945	CA	MET	2701	33.434	19.060	-3.787	1.00	72.13
ATOM	17946	N	LYS	2702	33.136	16.777	-4.578	1.00	69.46
ATOM	17947	CA	LYS	2702	32.480	15.710	-5.314	1.00	67.58
ATOM	17948	CB	LYS	2702	33.180	15.500	-6.657	1.00	68.24
ATOM	17949	CG	LYS	2702	33.257	16.745	-7.532	1.00	69.09
ATOM	17950	CD	LYS	2702	31.884	17.196	-8.031	1.00	69.83
ATOM	17951	CE	LYS	2702	31.288	16.208	-9.025	1.00	70.29
ATOM	17952	NZ	LYS	2702	29.978	16.690	-9.549	1.00	70.64
ATOM	17953	C	LYS	2702	32.359	14.356	-4.586	1.00	65.56
ATOM	17954	O	LYS	2702	32.309	13.312	-5.230	1.00	66.40
ATOM	17955	N	PRO	2703	32.359	14.356	-3.236	1.00	62.79
ATOM	17956	CD	PRO	2703	31.899	13.174	-2.477	1.00	62.15
ATOM	17957	CA	PRO	2703	32.399	15.527	-2.353	1.00	60.20
ATOM	17958	CB	PRO	2703	31.472	15.124	-1.221	1.00	60.98
ATOM	17959	CG	PRO	2703	31.824	13.700	-1.045	1.00	61.24
ATOM	17960	C	PRO	2703	33.838	15.784	-1.867	1.00	57.10
ATOM	17961	O	PRO	2703	34.808	15.402	-2.523	1.00	56.61
ATOM	17962	N	THR	2704	33.954	16.429	-0.711	1.00	54.53
ATOM	17963	CA	THR	2704	35.261	16.729	-0.126	1.00	51.38
ATOM	17964	CB	THR	2704	35.267	18.095	0.603	1.00	51.73
ATOM	17965	OG1	THR	2704	34.978	19.147	-0.328	1.00	52.06
ATOM	17966	CG2	THR	2704	36.630	18.346	1.240	1.00	50.43
ATOM	17967	C	THR	2704	35.628	15.647	0.884	1.00	49.86
ATOM	17968	O	THR	2704	35.041	15.571	1.963	1.00	48.30
ATOM	17969	N	THR	2705	36.605	14.819	0.532	1.00	48.07

ATOM	17970	CA	THR	2705	37.040	13.743	1.410	1.00	47.18
ATOM	17971	CB	THR	2705	37.087	12.397	0.664	1.00	46.54
ATOM	17972	OG1	THR	2705	38.071	12.459	-0.375	1.00	45.99
ATOM	17973	CG2	THR	2705	35.728	12.081	0.051	1.00	46.51
ATOM	17974	C	THR	2705	38.422	14.017	1.995	1.00	46.48
ATOM	17975	O	THR	2705	39.061	15.016	1.664	1.00	45.98
ATOM	17976	N	ILE	2706	38.875	13.119	2.864	1.00	45.87
ATOM	17977	CA	ILE	2706	40.180	13.245	3.502	1.00	45.37
ATOM	17978	CB	ILE	2706	40.461	12.049	4.438	1.00	45.76
ATOM	17979	CG2	ILE	2706	41.744	12.292	5.223	1.00	45.05
ATOM	17980	CG1	ILE	2706	39.287	11.852	5.400	1.00	47.29
ATOM	17981	CD1	ILE	2706	39.380	10.579	6.232	1.00	47.98
ATOM	17982	C	ILE	2706	41.278	13.293	2.443	1.00	45.82
ATOM	17983	O	ILE	2706	42.361	13.834	2.676	1.00	44.79
ATOM	17984	N	SER	2707	40.992	12.719	1.278	1.00	45.94
ATOM	17985	CA	SER	2707	41.949	12.697	0.174	1.00	46.20
ATOM	17986	CB	SER	2707	41.338	11.997	-1.045	1.00	46.03
ATOM	17987	OG	SER	2707	41.014	10.650	-0.758	1.00	47.96
ATOM	17988	C	SER	2707	42.380	14.110	-0.214	1.00	45.55
ATOM	17989	O	SER	2707	43.555	14.357	-0.489	1.00	44.61
ATOM	17990	N	LEU	2708	41.423	15.032	-0.236	1.00	45.78
ATOM	17991	CA	LEU	2708	41.699	16.422	-0.590	1.00	46.61
ATOM	17992	CB	LEU	2708	40.410	17.250	-0.538	1.00	47.45
ATOM	17993	CG	LEU	2708	39.904	17.852	-1.853	1.00	47.62
ATOM	17994	CD1	LEU	2708	38.612	18.619	-1.609	1.00	48.54
ATOM	17995	CD2	LEU	2708	40.960	18.772	-2.436	1.00	48.50
ATOM	17996	C	LEU	2708	42.741	17.051	0.333	1.00	46.79
ATOM	17997	O	LEU	2708	43.699	17.671	-0.133	1.00	46.13
ATOM	17998	N	LEU	2709	42.549	16.890	1.640	1.00	47.03
ATOM	17999	CA	LEU	2709	43.469	17.452	2.626	1.00	48.38
ATOM	18000	CB	LEU	2709	42.935	17.231	4.044	1.00	47.81
ATOM	18001	CG	LEU	2709	41.545	17.782	4.367	1.00	48.04
ATOM	18002	CD1	LEU	2709	41.209	17.497	5.827	1.00	46.71
ATOM	18003	CD2	LEU	2709	41.510	19.276	4.098	1.00	48.90
ATOM	18004	C	LEU	2709	44.854	16.829	2.505	1.00	49.28
ATOM	18005	O	LEU	2709	45.861	17.455	2.835	1.00	48.60
ATOM	18006	N	GLN	2710	44.895	15.589	2.032	1.00	50.99
ATOM	18007	CA	GLN	2710	46.154	14.880	1.867	1.00	52.96
ATOM	18008	CB	GLN	2710	45.893	13.391	1.632	1.00	54.28
ATOM	18009	CG	GLN	2710	47.137	12.520	1.688	1.00	57.12
ATOM	18010	CD	GLN	2710	47.721	12.419	3.087	1.00	58.97
ATOM	18011	OE1	GLN	2710	48.102	13.423	3.692	1.00	60.04
ATOM	18012	NE2	GLN	2710	47.794	11.198	3.607	1.00	59.77
ATOM	18013	C	GLN	2710	46.909	15.476	0.683	1.00	53.46
ATOM	18014	O	GLN	2710	48.096	15.790	0.787	1.00	53.06
ATOM	18015	N	LYS	2711	46.214	15.635	-0.441	1.00	53.98
ATOM	18016	CA	LYS	2711	46.824	16.205	-1.636	1.00	54.78
ATOM	18017	CB	LYS	2711	45.817	16.278	-2.789	1.00	55.24
ATOM	18018	CG	LYS	2711	46.421	16.833	-4.076	1.00	55.62
ATOM	18019	CD	LYS	2711	45.396	17.536	-4.955	1.00	57.13
ATOM	18020	CE	LYS	2711	44.346	16.586	-5.502	1.00	57.37
ATOM	18021	NZ	LYS	2711	43.404	17.307	-6.407	1.00	58.73
ATOM	18022	C	LYS	2711	47.318	17.614	-1.332	1.00	54.66
ATOM	18023	O	LYS	2711	48.382	18.025	-1.792	1.00	55.31
ATOM	18024	N	TYR	2712	46.531	18.354	-0.558	1.00	54.70
ATOM	18025	CA	TYR	2712	46.881	19.721	-0.193	1.00	54.60
ATOM	18026	CB	TYR	2712	45.796	20.328	0.698	1.00	54.84
ATOM	18027	CG	TYR	2712	44.590	20.842	-0.059	1.00	55.24
ATOM	18028	CD1	TYR	2712	43.480	21.344	0.620	1.00	55.21
ATOM	18029	CE1	TYR	2712	42.375	21.837	-0.071	1.00	55.78
ATOM	18030	CD2	TYR	2712	44.564	20.847	-1.456	1.00	55.42
ATOM	18031	CE2	TYR	2712	43.465	21.338	-2.155	1.00	55.89
ATOM	18032	CZ	TYR	2712	42.376	21.830	-1.458	1.00	55.09
ATOM	18033	OH	TYR	2712	41.290	22.313	-2.145	1.00	55.85
ATOM	18034	C	TYR	2712	48.227	19.825	0.505	1.00	54.49
ATOM	18035	O	TYR	2712	49.023	20.709	0.191	1.00	54.80
ATOM	18036	N	LYS	2713	48.485	18.928	1.450	1.00	54.67
ATOM	18037	CA	LYS	2713	49.747	18.958	2.175	1.00	55.19
ATOM	18038	CB	LYS	2713	49.787	17.860	3.241	1.00	53.74
ATOM	18039	CG	LYS	2713	51.072	17.868	4.056	1.00	52.19
ATOM	18040	CD	LYS	2713	50.915	17.134	5.372	1.00	50.87
ATOM	18041	CE	LYS	2713	52.169	17.275	6.218	1.00	50.54
ATOM	18042	NZ	LYS	2713	51.974	16.777	7.605	1.00	49.42
ATOM	18043	C	LYS	2713	50.935	18.809	1.232	1.00	55.89
ATOM	18044	O	LYS	2713	51.998	19.380	1.471	1.00	56.25
ATOM	18045	N	GLN	2714	50.753	18.042	0.161	1.00	57.18
ATOM	18046	CA	GLN	2714	51.820	17.844	-0.812	1.00	58.36

ATOM	18047	CB	GLN	2714	51.438	16.763	-1.819	1.00	59.42
ATOM	18048	CG	GLN	2714	51.254	15.390	-1.216	1.00	61.57
ATOM	18049	CD	GLN	2714	50.997	14.336	-2.270	1.00	62.96
ATOM	18050	OE1	GLN	2714	51.813	14.134	-3.171	1.00	64.00
ATOM	18051	NE2	GLN	2714	49.859	13.656	-2.166	1.00	63.63
ATOM	18052	C	GLN	2714	52.073	19.146	-1.551	1.00	58.50
ATOM	18053	O	GLN	2714	53.217	19.563	-1.722	1.00	59.24
ATOM	18054	N	GLU	2715	50.992	19.785	-1.986	1.00	58.54
ATOM	18055	CA	GLU	2715	51.082	21.042	-2.714	1.00	58.89
ATOM	18056	CB	GLU	2715	49.783	21.294	-3.477	1.00	59.02
ATOM	18057	CG	GLU	2715	49.372	20.144	-4.373	1.00	59.98
ATOM	18058	CD	GLU	2715	48.032	20.381	-5.034	1.00	60.87
ATOM	18059	OE1	GLU	2715	47.061	20.683	-4.309	1.00	61.95
ATOM	18060	OE2	GLU	2715	47.946	20.260	-6.274	1.00	61.16
ATOM	18061	C	GLU	2715	51.352	22.199	-1.761	1.00	58.97
ATOM	18062	O	GLU	2715	51.366	23.360	-2.169	1.00	59.41
ATOM	18063	N	LYS	2716	51.563	21.874	-0.489	1.00	58.61
ATOM	18064	CA	LYS	2716	51.836	22.882	0.531	1.00	58.78
ATOM	18065	CB	LYS	2716	53.169	23.578	0.244	1.00	58.70
ATOM	18066	CG	LYS	2716	54.325	22.634	-0.032	1.00	59.65
ATOM	18067	CD	LYS	2716	54.665	21.785	1.178	1.00	60.37
ATOM	18068	CE	LYS	2716	55.783	20.805	0.853	1.00	61.03
ATOM	18069	NZ	LYS	2716	57.003	21.501	0.359	1.00	60.83
ATOM	18070	C	LYS	2716	50.722	23.924	0.561	1.00	58.16
ATOM	18071	O	LYS	2716	50.926	25.047	1.020	1.00	58.70
ATOM	18072	N	LYS	2717	49.548	23.544	0.065	1.00	57.44
ATOM	18073	CA	LYS	2717	48.400	24.442	0.024	1.00	56.21
ATOM	18074	CB	LYS	2717	47.502	24.083	-1.167	1.00	57.20
ATOM	18075	CG	LYS	2717	46.344	25.048	-1.400	1.00	58.48
ATOM	18076	CD	LYS	2717	45.574	24.717	-2.679	1.00	59.26
ATOM	18077	CE	LYS	2717	46.441	24.883	-3.925	1.00	60.27
ATOM	18078	NZ	LYS	2717	45.681	24.594	-5.174	1.00	59.88
ATOM	18079	C	LYS	2717	47.604	24.368	1.326	1.00	55.15
ATOM	18080	O	LYS	2717	46.819	23.443	1.536	1.00	55.14
ATOM	18081	N	ARG	2718	47.820	25.350	2.197	1.00	53.27
ATOM	18082	CA	ARG	2718	47.135	25.413	3.483	1.00	52.15
ATOM	18083	CB	ARG	2718	47.728	26.537	4.334	1.00	52.42
ATOM	18084	CG	ARG	2718	49.122	26.226	4.849	1.00	53.20
ATOM	18085	CD	ARG	2718	49.749	27.416	5.548	1.00	54.76
ATOM	18086	NE	ARG	2718	50.135	28.463	4.605	1.00	55.74
ATOM	18087	CZ	ARG	2718	50.810	29.557	4.944	1.00	56.58
ATOM	18088	NH1	ARG	2718	51.173	29.750	6.204	1.00	56.22
ATOM	18089	NH2	ARG	2718	51.131	30.454	4.021	1.00	57.45
ATOM	18090	C	ARG	2718	45.632	25.612	3.328	1.00	50.84
ATOM	18091	O	ARG	2718	45.182	26.468	2.565	1.00	50.29
ATOM	18092	N	PHE	2719	44.863	24.816	4.067	1.00	48.72
ATOM	18093	CA	PHE	2719	43.406	24.872	4.016	1.00	46.09
ATOM	18094	CB	PHE	2719	42.856	23.483	3.674	1.00	47.13
ATOM	18095	CG	PHE	2719	43.372	22.390	4.565	1.00	46.19
ATOM	18096	CD1	PHE	2719	42.764	22.122	5.788	1.00	46.63
ATOM	18097	CD2	PHE	2719	44.483	21.643	4.193	1.00	46.52
ATOM	18098	CE1	PHE	2719	43.257	21.124	6.628	1.00	46.28
ATOM	18099	CE2	PHE	2719	44.984	20.644	5.024	1.00	46.72
ATOM	18100	CZ	PHE	2719	44.369	20.383	6.245	1.00	46.49
ATOM	18101	C	PHE	2719	42.788	25.375	5.318	1.00	44.37
ATOM	18102	O	PHE	2719	43.406	25.307	6.381	1.00	43.11
ATOM	18103	N	ALA	2720	41.561	25.879	5.223	1.00	42.30
ATOM	18104	CA	ALA	2720	40.848	26.403	6.381	1.00	41.78
ATOM	18105	CB	ALA	2720	40.263	27.772	6.049	1.00	41.45
ATOM	18106	C	ALA	2720	39.738	25.467	6.860	1.00	40.79
ATOM	18107	O	ALA	2720	39.120	24.756	6.065	1.00	39.99
ATOM	18108	N	THR	2721	39.495	25.481	8.169	1.00	40.42
ATOM	18109	CA	THR	2721	38.459	24.659	8.797	1.00	38.92
ATOM	18110	CB	THR	2721	39.074	23.502	9.607	1.00	39.08
ATOM	18111	OG1	THR	2721	40.006	22.786	8.787	1.00	41.05
ATOM	18112	CG2	THR	2721	37.986	22.545	10.073	1.00	41.39
ATOM	18113	C	THR	2721	37.660	25.543	9.757	1.00	37.36
ATOM	18114	O	THR	2721	38.181	26.531	10.269	1.00	37.24
ATOM	18115	N	ILE	2722	36.404	25.188	10.010	1.00	34.57
ATOM	18116	CA	ILE	2722	35.575	25.983	10.907	1.00	33.33
ATOM	18117	CB	ILE	2722	34.856	27.114	10.121	1.00	33.46
ATOM	18118	CG2	ILE	2722	33.767	26.519	9.232	1.00	32.91
ATOM	18119	CG1	ILE	2722	34.256	28.136	11.091	1.00	33.34
ATOM	18120	CD1	ILE	2722	33.727	29.396	10.411	1.00	33.25
ATOM	18121	C	ILE	2722	34.539	25.121	11.633	1.00	33.03
ATOM	18122	O	ILE	2722	34.165	24.048	11.160	1.00	32.21
ATOM	18123	N	THR	2723	34.089	25.591	12.791	1.00	31.25

ATOM	18124	CA	THR	2723	33.099	24.861	13.563	1.00	30.50
ATOM	18125	CB	THR	2723	33.120	25.275	15.044	1.00	31.78
ATOM	18126	OG1	THR	2723	32.810	26.669	15.150	1.00	33.34
ATOM	18127	CG2	THR	2723	34.489	25.014	15.648	1.00	31.14
ATOM	18128	C	THR	2723	31.716	25.143	12.996	1.00	29.87
ATOM	18129	O	THR	2723	31.491	26.174	12.360	1.00	29.14
ATOM	18130	N	ALA	2724	30.794	24.214	13.218	1.00	27.82
ATOM	18131	CA	ALA	2724	29.428	24.364	12.739	1.00	26.76
ATOM	18132	CB	ALA	2724	29.332	23.966	11.271	1.00	26.45
ATOM	18133	C	ALA	2724	28.556	23.462	13.594	1.00	26.25
ATOM	18134	O	ALA	2724	28.991	22.388	13.999	1.00	24.53
ATOM	18135	N	TYR	2725	27.336	23.905	13.877	1.00	25.34
ATOM	18136	CA	TYR	2725	26.422	23.126	14.702	1.00	25.41
ATOM	18137	CB	TYR	2725	26.441	23.634	16.145	1.00	25.02
ATOM	18138	CG	TYR	2725	27.818	23.940	16.681	1.00	25.72
ATOM	18139	CD1	TYR	2725	28.264	25.257	16.791	1.00	27.23
ATOM	18140	CE1	TYR	2725	29.534	25.548	17.278	1.00	27.51
ATOM	18141	CD2	TYR	2725	28.678	22.916	17.071	1.00	24.40
ATOM	18142	CE2	TYR	2725	29.951	23.195	17.557	1.00	27.21
ATOM	18143	CZ	TYR	2725	30.372	24.515	17.659	1.00	27.25
ATOM	18144	OH	TYR	2725	31.632	24.797	18.149	1.00	29.59
ATOM	18145	C	TYR	2725	24.996	23.188	14.181	1.00	25.48
ATOM	18146	O	TYR	2725	24.073	22.716	14.847	1.00	25.90
ATOM	18147	N	ASP	2726	24.812	23.773	12.999	1.00	24.99
ATOM	18148	CA	ASP	2726	23.475	23.895	12.424	1.00	25.25
ATOM	18149	CB	ASP	2726	22.736	25.085	13.049	1.00	24.48
ATOM	18150	CG	ASP	2726	23.368	26.424	12.701	1.00	27.30
ATOM	18151	OD1	ASP	2726	23.278	26.844	11.529	1.00	27.92
ATOM	18152	OD2	ASP	2726	23.954	27.055	13.608	1.00	26.94
ATOM	18153	C	ASP	2726	23.463	24.023	10.906	1.00	25.69
ATOM	18154	O	ASP	2726	24.482	24.317	10.282	1.00	25.88
ATOM	18155	N	TYR	2727	22.289	23.792	10.329	1.00	25.18
ATOM	18156	CA	TYR	2727	22.080	23.855	8.890	1.00	27.78
ATOM	18157	CB	TYR	2727	20.607	23.601	8.575	1.00	29.33
ATOM	18158	CG	TYR	2727	20.215	23.942	7.156	1.00	32.36
ATOM	18159	CD1	TYR	2727	20.418	23.035	6.117	1.00	33.43
ATOM	18160	CE1	TYR	2727	20.049	23.348	4.808	1.00	35.74
ATOM	18161	CD2	TYR	2727	19.636	25.177	6.853	1.00	32.74
ATOM	18162	CE2	TYR	2727	19.266	25.501	5.550	1.00	34.63
ATOM	18163	CZ	TYR	2727	19.473	24.581	4.535	1.00	34.95
ATOM	18164	OH	TYR	2727	19.090	24.890	3.250	1.00	36.38
ATOM	18165	C	TYR	2727	22.481	25.185	8.261	1.00	28.49
ATOM	18166	O	TYR	2727	23.244	25.219	7.296	1.00	26.62
ATOM	18167	N	SER	2728	21.940	26.273	8.798	1.00	29.50
ATOM	18168	CA	SER	2728	22.215	27.601	8.270	1.00	31.15
ATOM	18169	CB	SER	2728	21.606	28.670	9.174	1.00	30.32
ATOM	18170	OG	SER	2728	20.195	28.606	9.127	1.00	30.03
ATOM	18171	C	SER	2728	23.691	27.885	8.063	1.00	32.53
ATOM	18172	O	SER	2728	24.151	28.017	6.927	1.00	34.08
ATOM	18173	N	PHE	2729	24.441	27.979	9.152	1.00	33.01
ATOM	18174	CA	PHE	2729	25.860	28.263	9.026	1.00	34.03
ATOM	18175	CB	PHE	2729	26.514	28.379	10.402	1.00	32.92
ATOM	18176	CG	PHE	2729	26.244	29.689	11.084	1.00	33.06
ATOM	18177	CD1	PHE	2729	25.190	29.824	11.979	1.00	32.75
ATOM	18178	CD2	PHE	2729	27.041	30.800	10.816	1.00	33.37
ATOM	18179	CE1	PHE	2729	24.934	31.046	12.601	1.00	33.58
ATOM	18180	CE2	PHE	2729	26.793	32.024	11.430	1.00	33.46
ATOM	18181	CZ	PHE	2729	25.738	32.148	12.325	1.00	33.47
ATOM	18182	C	PHE	2729	26.598	27.241	8.171	1.00	34.90
ATOM	18183	O	PHE	2729	27.417	27.614	7.333	1.00	35.39
ATOM	18184	N	ALA	2730	26.310	25.958	8.367	1.00	34.77
ATOM	18185	CA	ALA	2730	26.968	24.919	7.582	1.00	34.81
ATOM	18186	CB	ALA	2730	26.409	23.544	7.949	1.00	34.81
ATOM	18187	C	ALA	2730	26.744	25.198	6.099	1.00	34.77
ATOM	18188	O	ALA	2730	27.638	25.002	5.275	1.00	34.75
ATOM	18189	N	LYS	2731	25.540	25.659	5.777	1.00	35.58
ATOM	18190	CA	LYS	2731	25.154	25.983	4.408	1.00	36.11
ATOM	18191	CB	LYS	2731	23.657	26.294	4.361	1.00	37.50
ATOM	18192	CG	LYS	2731	23.151	26.818	3.033	1.00	38.67
ATOM	18193	CD	LYS	2731	23.122	25.740	1.977	1.00	40.61
ATOM	18194	CE	LYS	2731	22.524	26.278	0.685	1.00	42.74
ATOM	18195	NZ	LYS	2731	22.418	25.227	-0.361	1.00	43.93
ATOM	18196	C	LYS	2731	25.938	27.189	3.909	1.00	36.82
ATOM	18197	O	LYS	2731	26.426	27.204	2.777	1.00	35.95
ATOM	18198	N	LEU	2732	26.048	28.198	4.766	1.00	37.43
ATOM	18199	CA	LEU	2732	26.762	29.421	4.434	1.00	38.34
ATOM	18200	CB	LEU	2732	26.576	30.449	5.558	1.00	38.63

ATOM	18201	CG	LEU	2732	27.150	31.858	5.367	1.00	38.74
ATOM	18202	CD1	LEU	2732	26.427	32.832	6.281	1.00	37.58
ATOM	18203	CD2	LEU	2732	28.643	31.853	5.652	1.00	38.30
ATOM	18204	C	LEU	2732	28.247	29.163	4.179	1.00	38.90
ATOM	18205	O	LEU	2732	28.830	29.742	3.264	1.00	39.61
ATOM	18206	N	PHE	2733	28.861	28.292	4.976	1.00	38.38
ATOM	18207	CA	PHE	2733	30.278	27.992	4.793	1.00	39.32
ATOM	18208	CB	PHE	2733	30.828	27.199	5.984	1.00	38.73
ATOM	18209	CG	PHE	2733	30.623	27.870	7.314	1.00	38.08
ATOM	18210	CD1	PHE	2733	30.813	29.241	7.459	1.00	37.35
ATOM	18211	CD2	PHE	2733	30.267	27.123	8.430	1.00	36.25
ATOM	18212	CE1	PHE	2733	30.652	29.856	8.698	1.00	36.41
ATOM	18213	CE2	PHE	2733	30.104	27.729	9.671	1.00	36.51
ATOM	18214	CZ	PHE	2733	30.297	29.098	9.804	1.00	36.45
ATOM	18215	C	PHE	2733	30.509	27.192	3.514	1.00	39.89
ATOM	18216	O	PHE	2733	31.449	27.455	2.764	1.00	39.04
ATOM	18217	N	ALA	2734	29.642	26.213	3.274	1.00	40.69
ATOM	18218	CA	ALA	2734	29.746	25.366	2.094	1.00	42.63
ATOM	18219	CB	ALA	2734	28.712	24.246	2.166	1.00	41.54
ATOM	18220	C	ALA	2734	29.564	26.157	0.800	1.00	44.13
ATOM	18221	O	ALA	2734	30.273	25.926	-0.177	1.00	44.26
ATOM	18222	N	ASP	2735	28.612	27.085	0.795	1.00	45.42
ATOM	18223	CA	ASP	2735	28.354	27.889	-0.394	1.00	47.29
ATOM	18224	CB	ASP	2735	27.145	28.802	-0.185	1.00	47.94
ATOM	18225	CG	ASP	2735	25.840	28.038	-0.114	1.00	49.27
ATOM	18226	OD1	ASP	2735	25.710	27.008	-0.815	1.00	49.87
ATOM	18227	OD2	ASP	2735	24.937	28.478	0.630	1.00	49.47
ATOM	18228	C	ASP	2735	29.555	28.738	-0.794	1.00	47.96
ATOM	18229	O	ASP	2735	29.759	29.013	-1.976	1.00	47.45
ATOM	18230	N	GLU	2736	30.343	29.154	0.193	1.00	48.95
ATOM	18231	CA	GLU	2736	31.520	29.976	-0.062	1.00	50.11
ATOM	18232	CB	GLU	2736	31.884	30.780	1.187	1.00	50.79
ATOM	18233	CG	GLU	2736	30.787	31.710	1.663	1.00	51.69
ATOM	18234	CD	GLU	2736	30.351	32.690	0.594	1.00	52.87
ATOM	18235	OE1	GLU	2736	31.200	33.477	0.129	1.00	54.23
ATOM	18236	OE2	GLU	2736	29.160	32.673	0.219	1.00	52.97
ATOM	18237	C	GLU	2736	32.717	29.139	-0.494	1.00	50.56
ATOM	18238	O	GLU	2736	33.330	29.405	-1.528	1.00	51.77
ATOM	18239	N	GLY	2737	33.051	28.127	0.299	1.00	50.60
ATOM	18240	CA	GLY	2737	34.181	27.281	-0.044	1.00	49.87
ATOM	18241	C	GLY	2737	34.630	26.374	1.082	1.00	49.32
ATOM	18242	O	GLY	2737	35.293	25.367	0.839	1.00	49.07
ATOM	18243	N	LEU	2738	34.281	26.735	2.313	1.00	49.01
ATOM	18244	CA	LEU	2738	34.646	25.936	3.475	1.00	48.38
ATOM	18245	CB	LEU	2738	34.252	26.658	4.765	1.00	48.66
ATOM	18246	CG	LEU	2738	35.241	27.691	5.301	1.00	47.93
ATOM	18247	CD1	LEU	2738	34.628	28.435	6.473	1.00	47.98
ATOM	18248	CD2	LEU	2738	36.523	26.992	5.726	1.00	49.25
ATOM	18249	C	LEU	2738	33.958	24.579	3.418	1.00	47.74
ATOM	18250	O	LEU	2738	32.781	24.457	3.757	1.00	48.29
ATOM	18251	N	ASN	2739	34.701	23.564	2.986	1.00	46.36
ATOM	18252	CA	ASN	2739	34.168	22.214	2.873	1.00	45.27
ATOM	18253	CB	ASN	2739	34.513	21.624	1.502	1.00	46.52
ATOM	18254	CG	ASN	2739	34.170	22.564	0.356	1.00	48.47
ATOM	18255	OD1	ASN	2739	33.080	23.142	0.315	1.00	49.82
ATOM	18256	ND2	ASN	2739	35.096	22.714	-0.586	1.00	48.29
ATOM	18257	C	ASN	2739	34.733	21.319	3.975	1.00	43.36
ATOM	18258	O	ASN	2739	34.751	20.097	3.850	1.00	44.23
ATOM	18259	N	VAL	2740	35.196	21.938	5.054	1.00	40.65
ATOM	18260	CA	VAL	2740	35.753	21.200	6.179	1.00	38.58
ATOM	18261	CB	VAL	2740	37.294	21.276	6.180	1.00	39.42
ATOM	18262	CG1	VAL	2740	37.863	20.397	7.282	1.00	38.41
ATOM	18263	CG2	VAL	2740	37.836	20.840	4.826	1.00	39.41
ATOM	18264	C	VAL	2740	35.206	21.797	7.472	1.00	37.55
ATOM	18265	O	VAL	2740	35.670	22.843	7.932	1.00	36.45
ATOM	18266	N	MET	2741	34.213	21.128	8.052	1.00	35.79
ATOM	18267	CA	MET	2741	33.586	21.605	9.280	1.00	33.14
ATOM	18268	CB	MET	2741	32.097	21.858	9.019	1.00	33.81
ATOM	18269	CG	MET	2741	31.862	23.092	8.157	1.00	33.62
ATOM	18270	SD	MET	2741	30.216	23.250	7.476	1.00	35.47
ATOM	18271	CE	MET	2741	30.583	23.290	5.712	1.00	31.93
ATOM	18272	C	MET	2741	33.781	20.666	10.466	1.00	31.98
ATOM	18273	O	MET	2741	33.970	19.461	10.301	1.00	30.77
ATOM	18274	N	LEU	2742	33.737	21.228	11.666	1.00	30.44
ATOM	18275	CA	LEU	2742	33.927	20.442	12.870	1.00	29.16
ATOM	18276	CB	LEU	2742	35.268	20.818	13.517	1.00	31.59
ATOM	18277	CG	LEU	2742	35.690	20.194	14.857	1.00	34.91

ATOM	18278	CD1	LEU	2742	34.985	20.907	15.998	1.00	36.28
ATOM	18279	CD2	LEU	2742	35.382	18.698	14.872	1.00	35.47
ATOM	18280	C	LEU	2742	32.784	20.603	13.871	1.00	28.08
ATOM	18281	O	LEU	2742	32.471	21.710	14.315	1.00	26.39
ATOM	18282	N	VAL	2743	32.154	19.479	14.205	1.00	26.29
ATOM	18283	CA	VAL	2743	31.058	19.457	15.165	1.00	24.79
ATOM	18284	CB	VAL	2743	29.926	18.504	14.705	1.00	24.91
ATOM	18285	CG1	VAL	2743	28.798	18.501	15.733	1.00	23.46
ATOM	18286	CG2	VAL	2743	29.399	18.927	13.336	1.00	23.03
ATOM	18287	C	VAL	2743	31.660	18.942	16.468	1.00	25.50
ATOM	18288	O	VAL	2743	31.584	17.751	16.765	1.00	24.89
ATOM	18289	N	GLY	2744	32.271	19.846	17.234	1.00	25.53
ATOM	18290	CA	GLY	2744	32.909	19.460	18.482	1.00	24.69
ATOM	18291	C	GLY	2744	32.088	19.678	19.739	1.00	25.51
ATOM	18292	O	GLY	2744	31.083	20.389	19.727	1.00	23.34
ATOM	18293	N	ASP	2745	32.530	19.059	20.829	1.00	26.45
ATOM	18294	CA	ASP	2745	31.846	19.170	22.109	1.00	27.04
ATOM	18295	CB	ASP	2745	32.468	18.218	23.136	1.00	28.02
ATOM	18296	CG	ASP	2745	33.963	18.422	23.283	1.00	31.06
ATOM	18297	OD1	ASP	2745	34.442	19.544	23.010	1.00	31.67
ATOM	18298	OD2	ASP	2745	34.655	17.469	23.674	1.00	33.16
ATOM	18299	C	ASP	2745	31.888	20.599	22.646	1.00	27.84
ATOM	18300	O	ASP	2745	31.295	20.902	23.682	1.00	26.58
ATOM	18301	N	SER	2746	32.598	21.476	21.946	1.00	27.48
ATOM	18302	CA	SER	2746	32.675	22.864	22.368	1.00	26.36
ATOM	18303	CB	SER	2746	33.541	23.670	21.397	1.00	26.95
ATOM	18304	OG	SER	2746	33.076	23.552	20.064	1.00	29.19
ATOM	18305	C	SER	2746	31.254	23.417	22.398	1.00	27.45
ATOM	18306	O	SER	2746	30.946	24.342	23.154	1.00	26.43
ATOM	18307	N	LEU	2747	30.388	22.830	21.575	1.00	25.07
ATOM	18308	CA	LEU	2747	28.988	23.244	21.501	1.00	24.80
ATOM	18309	CB	LEU	2747	28.220	22.325	20.539	1.00	24.87
ATOM	18310	CG	LEU	2747	28.127	20.828	20.860	1.00	26.63
ATOM	18311	CD1	LEU	2747	26.966	20.567	21.816	1.00	25.96
ATOM	18312	CD2	LEU	2747	27.912	20.050	19.564	1.00	25.74
ATOM	18313	C	LEU	2747	28.343	23.215	22.887	1.00	22.90
ATOM	18314	O	LEU	2747	27.315	23.851	23.122	1.00	22.29
ATOM	18315	N	GLY	2748	28.952	22.473	23.805	1.00	22.88
ATOM	18316	CA	GLY	2748	28.414	22.396	25.151	1.00	25.99
ATOM	18317	C	GLY	2748	28.449	23.744	25.842	1.00	27.51
ATOM	18318	O	GLY	2748	27.725	23.975	26.810	1.00	27.90
ATOM	18319	N	MET	2749	29.291	24.641	25.342	1.00	29.54
ATOM	18320	CA	MET	2749	29.411	25.970	25.930	1.00	30.31
ATOM	18321	CB	MET	2749	30.884	26.294	26.194	1.00	32.91
ATOM	18322	CG	MET	2749	31.546	25.370	27.208	1.00	35.18
ATOM	18323	SD	MET	2749	33.294	25.754	27.464	1.00	42.41
ATOM	18324	CE	MET	2749	33.162	27.152	28.569	1.00	40.70
ATOM	18325	C	MET	2749	28.798	27.044	25.042	1.00	29.17
ATOM	18326	O	MET	2749	28.003	27.863	25.500	1.00	30.78
ATOM	18327	N	THR	2750	29.162	27.029	23.767	1.00	28.64
ATOM	18328	CA	THR	2750	28.662	28.016	22.827	1.00	28.34
ATOM	18329	CB	THR	2750	29.546	28.057	21.570	1.00	29.53
ATOM	18330	OG1	THR	2750	29.124	29.130	20.718	1.00	33.35
ATOM	18331	CG2	THR	2750	29.450	26.744	20.816	1.00	29.90
ATOM	18332	C	THR	2750	27.213	27.787	22.409	1.00	27.81
ATOM	18333	O	THR	2750	26.495	28.731	22.073	1.00	27.33
ATOM	18334	N	VAL	2751	26.779	26.533	22.425	1.00	27.07
ATOM	18335	CA	VAL	2751	25.411	26.220	22.033	1.00	26.65
ATOM	18336	CB	VAL	2751	25.380	25.004	21.076	1.00	27.34
ATOM	18337	CG1	VAL	2751	23.945	24.661	20.717	1.00	25.72
ATOM	18338	CG2	VAL	2751	26.182	25.316	19.817	1.00	27.61
ATOM	18339	C	VAL	2751	24.508	25.940	23.231	1.00	25.59
ATOM	18340	O	VAL	2751	23.459	26.565	23.380	1.00	25.62
ATOM	18341	N	GLN	2752	24.924	25.008	24.085	1.00	25.08
ATOM	18342	CA	GLN	2752	24.140	24.633	25.261	1.00	25.15
ATOM	18343	CB	GLN	2752	24.556	23.237	25.735	1.00	25.01
ATOM	18344	CG	GLN	2752	24.136	22.122	24.776	1.00	21.90
ATOM	18345	CD	GLN	2752	24.763	20.776	25.103	1.00	19.31
ATOM	18346	OE1	GLN	2752	25.425	20.616	26.126	1.00	20.25
ATOM	18347	NE2	GLN	2752	24.563	19.802	24.223	1.00	16.51
ATOM	18348	C	GLN	2752	24.248	25.637	26.406	1.00	27.38
ATOM	18349	O	GLN	2752	23.303	25.818	27.179	1.00	26.43
ATOM	18350	N	GLY	2753	25.401	26.286	26.522	1.00	27.57
ATOM	18351	CA	GLY	2753	25.577	27.273	27.574	1.00	29.69
ATOM	18352	C	GLY	2753	26.144	26.765	28.886	1.00	30.82
ATOM	18353	O	GLY	2753	25.954	27.394	29.928	1.00	30.56
ATOM	18354	N	HIS	2754	26.836	25.631	28.842	1.00	30.11

ATOM	18355	CA	HIS	2754	27.448	25.063	30.036	1.00	32.21
ATOM	18356	CB	HIS	2754	27.639	23.557	29.877	1.00	33.27
ATOM	18357	CG	HIS	2754	26.359	22.794	29.763	1.00	34.86
ATOM	18358	CD2	HIS	2754	25.852	22.052	28.751	1.00	34.88
ATOM	18359	ND1	HIS	2754	25.433	22.735	30.783	1.00	35.48
ATOM	18360	CE1	HIS	2754	24.411	21.988	30.404	1.00	35.76
ATOM	18361	NE2	HIS	2754	24.641	21.562	29.175	1.00	35.21
ATOM	18362	C	HIS	2754	28.808	25.721	30.258	1.00	33.24
ATOM	18363	O	HIS	2754	29.329	26.392	29.365	1.00	31.50
ATOM	18364	N	ASP	2755	29.381	25.511	31.442	1.00	34.08
ATOM	18365	CA	ASP	2755	30.678	26.084	31.795	1.00	35.48
ATOM	18366	CB	ASP	2755	30.789	26.256	33.319	1.00	38.54
ATOM	18367	CG	ASP	2755	30.687	24.941	34.070	1.00	40.66
ATOM	18368	OD1	ASP	2755	31.598	24.093	33.934	1.00	44.22
ATOM	18369	OD2	ASP	2755	29.694	24.749	34.805	1.00	43.84
ATOM	18370	C	ASP	2755	31.841	25.240	31.285	1.00	35.23
ATOM	18371	O	ASP	2755	32.999	25.650	31.363	1.00	36.04
ATOM	18372	N	SER	2756	31.531	24.055	30.770	1.00	33.43
ATOM	18373	CA	SER	2756	32.550	23.161	30.239	1.00	31.37
ATOM	18374	CB	SER	2756	33.111	22.252	31.339	1.00	29.97
ATOM	18375	OG	SER	2756	32.155	21.301	31.769	1.00	28.60
ATOM	18376	C	SER	2756	31.929	22.316	29.134	1.00	30.66
ATOM	18377	O	SER	2756	30.767	22.506	28.776	1.00	29.90
ATOM	18378	N	THR	2757	32.708	21.382	28.601	1.00	30.30
ATOM	18379	CA	THR	2757	32.236	20.520	27.526	1.00	29.72
ATOM	18380	CB	THR	2757	33.296	20.404	26.415	1.00	29.31
ATOM	18381	OG1	THR	2757	34.491	19.832	26.957	1.00	27.82
ATOM	18382	CG2	THR	2757	33.615	21.773	25.831	1.00	29.02
ATOM	18383	C	THR	2757	31.889	19.109	28.009	1.00	29.19
ATOM	18384	O	THR	2757	31.433	18.275	27.227	1.00	28.12
ATOM	18385	N	LEU	2758	32.107	18.842	29.293	1.00	28.20
ATOM	18386	CA	LEU	2758	31.824	17.519	29.849	1.00	27.55
ATOM	18387	CB	LEU	2758	32.241	17.453	31.322	1.00	28.03
ATOM	18388	CG	LEU	2758	33.689	17.047	31.630	1.00	29.70
ATOM	18389	CD1	LEU	2758	34.658	18.019	30.978	1.00	30.55
ATOM	18390	CD2	LEU	2758	33.895	17.011	33.135	1.00	30.83
ATOM	18391	C	LEU	2758	30.367	17.072	29.716	1.00	26.67
ATOM	18392	O	LEU	2758	30.095	15.899	29.450	1.00	26.40
ATOM	18393	N	PRO	2759	29.412	17.993	29.908	1.00	26.39
ATOM	18394	CD	PRO	2759	29.559	19.394	30.346	1.00	28.12
ATOM	18395	CA	PRO	2759	27.995	17.626	29.795	1.00	26.06
ATOM	18396	CB	PRO	2759	27.269	18.895	30.250	1.00	28.18
ATOM	18397	CG	PRO	2759	28.250	19.993	29.929	1.00	27.99
ATOM	18398	C	PRO	2759	27.560	17.161	28.401	1.00	25.95
ATOM	18399	O	PRO	2759	26.499	16.557	28.244	1.00	24.22
ATOM	18400	N	VAL	2760	28.378	17.435	27.389	1.00	24.76
ATOM	18401	CA	VAL	2760	28.045	17.037	26.022	1.00	23.60
ATOM	18402	CB	VAL	2760	28.999	17.697	24.999	1.00	23.62
ATOM	18403	CG1	VAL	2760	28.613	17.292	23.592	1.00	23.23
ATOM	18404	CG2	VAL	2760	28.949	19.204	25.135	1.00	24.42
ATOM	18405	C	VAL	2760	28.120	15.528	25.853	1.00	21.28
ATOM	18406	O	VAL	2760	29.142	14.912	26.145	1.00	21.37
ATOM	18407	N	THR	2761	27.041	14.914	25.381	1.00	21.58
ATOM	18408	CA	THR	2761	27.096	13.475	25.205	1.00	22.07
ATOM	18409	CB	THR	2761	26.038	12.765	26.109	1.00	25.74
ATOM	18410	OG1	THR	2761	25.041	13.706	26.540	1.00	27.70
ATOM	18411	CG2	THR	2761	26.713	12.205	27.362	1.00	29.26
ATOM	18412	C	THR	2761	27.007	13.062	23.731	1.00	20.47
ATOM	18413	O	THR	2761	26.850	13.907	22.851	1.00	18.18
ATOM	18414	N	VAL	2762	27.146	11.769	23.466	1.00	17.63
ATOM	18415	CA	VAL	2762	27.127	11.268	22.102	1.00	18.14
ATOM	18416	CB	VAL	2762	27.260	9.724	22.092	1.00	16.98
ATOM	18417	CG1	VAL	2762	27.180	9.186	20.676	1.00	18.56
ATOM	18418	CG2	VAL	2762	28.601	9.330	22.709	1.00	17.91
ATOM	18419	C	VAL	2762	25.884	11.699	21.335	1.00	17.74
ATOM	18420	O	VAL	2762	25.986	12.166	20.204	1.00	20.33
ATOM	18421	N	ALA	2763	24.714	11.555	21.950	1.00	16.50
ATOM	18422	CA	ALA	2763	23.461	11.939	21.308	1.00	16.78
ATOM	18423	CB	ALA	2763	22.291	11.727	22.274	1.00	17.39
ATOM	18424	C	ALA	2763	23.475	13.387	20.814	1.00	16.99
ATOM	18425	O	ALA	2763	22.967	13.679	19.732	1.00	16.49
ATOM	18426	N	ASP	2764	24.049	14.289	21.607	1.00	16.36
ATOM	18427	CA	ASP	2764	24.118	15.696	21.228	1.00	17.12
ATOM	18428	CB	ASP	2764	24.719	16.544	22.355	1.00	16.73
ATOM	18429	CG	ASP	2764	23.886	16.518	23.622	1.00	18.74
ATOM	18430	OD1	ASP	2764	22.638	16.468	23.530	1.00	17.10
ATOM	18431	OD2	ASP	2764	24.482	16.570	24.718	1.00	18.91



ATOM	18432	C	ASP	2764	24.968	15.875	19.977	1.00	16.55
ATOM	18433	O	ASP	2764	24.617	16.642	19.084	1.00	15.59
ATOM	18434	N	ILE	2765	26.094	15.171	19.923	1.00	17.15
ATOM	18435	CA	ILE	2765	26.991	15.261	18.774	1.00	18.11
ATOM	18436	CB	ILE	2765	28.270	14.399	18.985	1.00	18.63
ATOM	18437	CG2	ILE	2765	29.151	14.452	17.740	1.00	19.14
ATOM	18438	CG1	ILE	2765	29.057	14.901	20.207	1.00	18.27
ATOM	18439	CD1	ILE	2765	29.657	16.300	20.041	1.00	20.11
ATOM	18440	C	ILE	2765	26.263	14.787	17.509	1.00	18.09
ATOM	18441	O	ILE	2765	26.328	15.432	16.461	1.00	17.25
ATOM	18442	N	ALA	2766	25.563	13.661	17.615	1.00	17.05
ATOM	18443	CA	ALA	2766	24.831	13.106	16.478	1.00	16.59
ATOM	18444	CB	ALA	2766	24.201	11.765	16.858	1.00	18.04
ATOM	18445	C	ALA	2766	23.749	14.060	15.983	1.00	16.20
ATOM	18446	O	ALA	2766	23.486	14.167	14.778	1.00	14.36
ATOM	18447	N	TYR	2767	23.099	14.737	16.921	1.00	15.60
ATOM	18448	CA	TYR	2767	22.048	15.682	16.578	1.00	17.66
ATOM	18449	CB	TYR	2767	21.439	16.269	17.853	1.00	17.15
ATOM	18450	CG	TYR	2767	20.432	17.370	17.611	1.00	18.50
ATOM	18451	CD1	TYR	2767	19.212	17.107	16.998	1.00	19.60
ATOM	18452	CE1	TYR	2767	18.269	18.113	16.811	1.00	19.55
ATOM	18453	CD2	TYR	2767	20.689	18.671	18.028	1.00	20.43
ATOM	18454	CE2	TYR	2767	19.754	19.684	17.845	1.00	17.99
ATOM	18455	CZ	TYR	2767	18.547	19.396	17.238	1.00	20.45
ATOM	18456	OH	TYR	2767	17.607	20.389	17.067	1.00	19.83
ATOM	18457	C	TYR	2767	22.612	16.812	15.715	1.00	18.01
ATOM	18458	O	TYR	2767	22.130	17.075	14.614	1.00	19.81
ATOM	18459	N	HIS	2768	23.639	17.482	16.220	1.00	19.41
ATOM	18460	CA	HIS	2768	24.239	18.581	15.479	1.00	18.71
ATOM	18461	CB	HIS	2768	25.205	19.354	16.387	1.00	18.01
ATOM	18462	CG	HIS	2768	24.513	20.100	17.490	1.00	19.91
ATOM	18463	CD2	HIS	2768	24.343	19.799	18.801	1.00	20.46
ATOM	18464	ND1	HIS	2768	23.816	21.271	17.275	1.00	19.52
ATOM	18465	CE1	HIS	2768	23.246	21.657	18.403	1.00	19.84
ATOM	18466	NE2	HIS	2768	23.549	20.782	19.344	1.00	19.32
ATOM	18467	C	HIS	2768	24.929	18.102	14.199	1.00	17.93
ATOM	18468	O	HIS	2768	24.916	18.802	13.185	1.00	17.64
ATOM	18469	N	THR	2769	25.508	16.904	14.234	1.00	17.47
ATOM	18470	CA	THR	2769	26.183	16.352	13.064	1.00	18.99
ATOM	18471	CB	THR	2769	26.810	14.970	13.381	1.00	19.01
ATOM	18472	OG1	THR	2769	27.915	15.147	14.269	1.00	19.38
ATOM	18473	CG2	THR	2769	27.295	14.277	12.109	1.00	19.98
ATOM	18474	C	THR	2769	25.207	16.216	11.894	1.00	19.84
ATOM	18475	O	THR	2769	25.539	16.554	10.759	1.00	20.75
ATOM	18476	N	ALA	2770	24.005	15.720	12.173	1.00	18.34
ATOM	18477	CA	ALA	2770	22.997	15.563	11.137	1.00	20.30
ATOM	18478	CB	ALA	2770	21.784	14.809	11.686	1.00	19.96
ATOM	18479	C	ALA	2770	22.562	16.923	10.586	1.00	19.65
ATOM	18480	O	ALA	2770	22.303	17.058	9.387	1.00	19.44
ATOM	18481	N	ALA	2771	22.481	17.931	11.453	1.00	19.52
ATOM	18482	CA	ALA	2771	22.083	19.265	11.010	1.00	19.17
ATOM	18483	CB	ALA	2771	21.887	20.199	12.213	1.00	18.60
ATOM	18484	C	ALA	2771	23.146	19.828	10.072	1.00	19.51
ATOM	18485	O	ALA	2771	22.833	20.325	8.993	1.00	20.21
ATOM	18486	N	VAL	2772	24.405	19.740	10.481	1.00	20.13
ATOM	18487	CA	VAL	2772	25.498	20.238	9.653	1.00	22.46
ATOM	18488	CB	VAL	2772	26.864	19.996	10.332	1.00	22.59
ATOM	18489	CG1	VAL	2772	27.998	20.293	9.355	1.00	22.59
ATOM	18490	CG2	VAL	2772	26.983	20.869	11.575	1.00	20.73
ATOM	18491	C	VAL	2772	25.485	19.544	8.291	1.00	23.49
ATOM	18492	O	VAL	2772	25.567	20.198	7.252	1.00	23.77
ATOM	18493	N	ARG	2773	25.375	18.219	8.307	1.00	23.50
ATOM	18494	CA	ARG	2773	25.352	17.435	7.079	1.00	23.91
ATOM	18495	CB	ARG	2773	25.182	15.949	7.402	1.00	23.75
ATOM	18496	CG	ARG	2773	25.032	15.065	6.181	1.00	24.41
ATOM	18497	CD	ARG	2773	26.215	15.217	5.241	1.00	25.43
ATOM	18498	NE	ARG	2773	27.458	14.746	5.840	1.00	25.65
ATOM	18499	CZ	ARG	2773	28.661	14.919	5.301	1.00	27.67
ATOM	18500	NH1	ARG	2773	28.787	15.560	4.147	1.00	27.55
ATOM	18501	NH2	ARG	2773	29.742	14.449	5.912	1.00	24.82
ATOM	18502	C	ARG	2773	24.260	17.873	6.107	1.00	23.35
ATOM	18503	O	ARG	2773	24.485	17.909	4.897	1.00	25.70
ATOM	18504	N	ARG	2774	23.081	18.198	6.626	1.00	23.07
ATOM	18505	CA	ARG	2774	21.979	18.639	5.777	1.00	24.60
ATOM	18506	CB	ARG	2774	20.698	18.814	6.597	1.00	24.60
ATOM	18507	CG	ARG	2774	20.163	17.532	7.217	1.00	25.89
ATOM	18508	CD	ARG	2774	18.759	17.730	7.780	1.00	27.00

ATOM	18509	NE	ARG	2774	18.237	16.502	8.381	1.00	26.44
ATOM	18510	CZ	ARG	2774	18.464	16.116	9.634	1.00	27.67
ATOM	18511	NH1	ARG	2774	19.203	16.862	10.445	1.00	26.75
ATOM	18512	NH2	ARG	2774	17.953	14.976	10.078	1.00	29.16
ATOM	18513	C	ARG	2774	22.329	19.962	5.107	1.00	26.29
ATOM	18514	O	ARG	2774	21.917	20.225	3.975	1.00	25.64
ATOM	18515	N	GLY	2775	23.095	20.786	5.818	1.00	26.82
ATOM	18516	CA	GLY	2775	23.491	22.081	5.295	1.00	29.16
ATOM	18517	C	GLY	2775	24.688	22.025	4.365	1.00	30.64
ATOM	18518	O	GLY	2775	24.869	22.911	3.528	1.00	30.02
ATOM	18519	N	ALA	2776	25.506	20.987	4.517	1.00	30.40
ATOM	18520	CA	ALA	2776	26.694	20.802	3.691	1.00	32.03
ATOM	18521	CB	ALA	2776	27.914	21.368	4.403	1.00	31.76
ATOM	18522	C	ALA	2776	26.900	19.315	3.404	1.00	32.26
ATOM	18523	O	ALA	2776	27.754	18.670	4.006	1.00	33.25
ATOM	18524	N	PRO	2777	26.118	18.753	2.470	1.00	32.99
ATOM	18525	CD	PRO	2777	25.068	19.418	1.678	1.00	33.32
ATOM	18526	CA	PRO	2777	26.215	17.335	2.109	1.00	33.05
ATOM	18527	CB	PRO	2777	25.007	17.135	1.202	1.00	34.47
ATOM	18528	CG	PRO	2777	24.886	18.461	0.526	1.00	34.66
ATOM	18529	C	PRO	2777	27.520	16.922	1.435	1.00	33.57
ATOM	18530	O	PRO	2777	27.824	15.734	1.349	1.00	31.96
ATOM	18531	N	ASN	2778	28.288	17.902	0.966	1.00	33.97
ATOM	18532	CA	ASN	2778	29.555	17.625	0.296	1.00	35.27
ATOM	18533	CB	ASN	2778	29.619	18.366	-1.046	1.00	36.46
ATOM	18534	CG	ASN	2778	28.554	17.909	-2.023	1.00	38.38
ATOM	18535	OD1	ASN	2778	28.532	16.752	-2.435	1.00	38.91
ATOM	18536	ND2	ASN	2778	27.661	18.822	-2.399	1.00	39.92
ATOM	18537	C	ASN	2778	30.768	18.023	1.139	1.00	34.56
ATOM	18538	O	ASN	2778	31.884	18.090	0.629	1.00	35.51
ATOM	18539	N	CYS	2779	30.558	18.284	2.425	1.00	32.91
ATOM	18540	CA	CYS	2779	31.664	18.683	3.285	1.00	31.31
ATOM	18541	CB	CYS	2779	31.202	19.708	4.335	1.00	32.14
ATOM	18542	SG	CYS	2779	30.456	19.001	5.868	1.00	30.62
ATOM	18543	C	CYS	2779	32.287	17.497	4.006	1.00	31.79
ATOM	18544	O	CYS	2779	31.665	16.444	4.151	1.00	31.60
ATOM	18545	N	LEU	2780	33.531	17.673	4.436	1.00	30.11
ATOM	18546	CA	LEU	2780	34.231	16.647	5.191	1.00	29.59
ATOM	18547	CB	LEU	2780	35.744	16.787	5.018	1.00	29.72
ATOM	18548	CG	LEU	2780	36.593	15.754	5.768	1.00	29.00
ATOM	18549	CD1	LEU	2780	36.280	14.356	5.241	1.00	29.73
ATOM	18550	CD2	LEU	2780	38.070	16.064	5.591	1.00	30.17
ATOM	18551	C	LEU	2780	33.841	16.958	6.632	1.00	29.34
ATOM	18552	O	LEU	2780	34.395	17.868	7.245	1.00	28.84
ATOM	18553	N	LEU	2781	32.883	16.204	7.160	1.00	27.59
ATOM	18554	CA	LEU	2781	32.384	16.422	8.509	1.00	25.37
ATOM	18555	CB	LEU	2781	30.891	16.063	8.558	1.00	24.75
ATOM	18556	CG	LEU	2781	29.977	16.721	9.604	1.00	23.53
ATOM	18557	CD1	LEU	2781	28.525	16.303	9.359	1.00	23.06
ATOM	18558	CD2	LEU	2781	30.414	16.333	10.994	1.00	22.38
ATOM	18559	C	LEU	2781	33.149	15.643	9.584	1.00	25.37
ATOM	18560	O	LEU	2781	33.200	14.415	9.563	1.00	23.46
ATOM	18561	N	LEU	2782	33.758	16.372	10.514	1.00	26.91
ATOM	18562	CA	LEU	2782	34.488	15.760	11.617	1.00	26.65
ATOM	18563	CB	LEU	2782	35.891	16.349	11.738	1.00	29.44
ATOM	18564	CG	LEU	2782	36.940	15.866	10.736	1.00	31.77
ATOM	18565	CD1	LEU	2782	36.836	16.642	9.435	1.00	32.73
ATOM	18566	CD2	LEU	2782	38.316	16.046	11.354	1.00	34.44
ATOM	18567	C	LEU	2782	33.729	16.016	12.913	1.00	26.25
ATOM	18568	O	LEU	2782	33.362	17.152	13.208	1.00	26.93
ATOM	18569	N	ALA	2783	33.495	14.966	13.692	1.00	25.81
ATOM	18570	CA	ALA	2783	32.775	15.116	14.953	1.00	26.30
ATOM	18571	CB	ALA	2783	31.397	14.481	14.843	1.00	25.81
ATOM	18572	C	ALA	2783	33.555	14.483	16.096	1.00	23.83
ATOM	18573	O	ALA	2783	34.175	13.439	15.921	1.00	23.35
ATOM	18574	N	ASP	2784	33.532	15.112	17.267	1.00	24.55
ATOM	18575	CA	ASP	2784	34.258	14.565	18.409	1.00	24.44
ATOM	18576	CB	ASP	2784	34.644	15.649	19.420	1.00	29.43
ATOM	18577	CG	ASP	2784	35.301	16.852	18.787	1.00	30.77
ATOM	18578	OD1	ASP	2784	35.870	16.717	17.687	1.00	34.29
ATOM	18579	OD2	ASP	2784	35.253	17.929	19.416	1.00	32.28
ATOM	18580	C	ASP	2784	33.445	13.549	19.184	1.00	22.89
ATOM	18581	O	ASP	2784	32.213	13.581	19.176	1.00	22.27
ATOM	18582	N	LEU	2785	34.151	12.641	19.843	1.00	22.16
ATOM	18583	CA	LEU	2785	33.506	11.683	20.718	1.00	21.83
ATOM	18584	CB	LEU	2785	34.278	10.367	20.788	1.00	21.35
ATOM	18585	CG	LEU	2785	34.145	9.458	19.559	1.00	21.98

ATOM	18586	CD1	LEU	2785	34.687	8.077	19.896	1.00	22.46
ATOM	18587	CD2	LEU	2785	32.680	9.356	19.147	1.00	22.46
ATOM	18588	C	LEU	2785	33.629	12.440	22.032	1.00	23.06
ATOM	18589	O	LEU	2785	34.738	12.760	22.472	1.00	25.15
ATOM	18590	N	PRO	2786	32.495	12.771	22.658	1.00	22.63
ATOM	18591	CD	PRO	2786	31.134	12.348	22.285	1.00	22.73
ATOM	18592	CA	PRO	2786	32.483	13.509	23.925	1.00	22.23
ATOM	18593	CB	PRO	2786	30.993	13.690	24.200	1.00	22.61
ATOM	18594	CG	PRO	2786	30.400	12.444	23.604	1.00	24.03
ATOM	18595	C	PRO	2786	33.201	12.840	25.084	1.00	22.35
ATOM	18596	O	PRO	2786	33.774	11.761	24.945	1.00	23.47
ATOM	18597	N	PHE	2787	33.157	13.511	26.232	1.00	23.08
ATOM	18598	CA	PHE	2787	33.771	13.036	27.464	1.00	21.93
ATOM	18599	CB	PHE	2787	33.378	13.979	28.609	1.00	24.24
ATOM	18600	CG	PHE	2787	33.721	13.461	29.974	1.00	25.46
ATOM	18601	CD1	PHE	2787	35.047	13.282	30.355	1.00	28.52
ATOM	18602	CD2	PHE	2787	32.714	13.151	30.885	1.00	29.32
ATOM	18603	CE1	PHE	2787	35.368	12.802	31.624	1.00	29.53
ATOM	18604	CE2	PHE	2787	33.023	12.671	32.157	1.00	30.35
ATOM	18605	CZ	PHE	2787	34.356	12.496	32.529	1.00	31.34
ATOM	18606	C	PHE	2787	33.359	11.598	27.800	1.00	20.61
ATOM	18607	O	PHE	2787	32.174	11.260	27.788	1.00	21.01
ATOM	18608	N	MET	2788	34.354	10.766	28.091	1.00	17.86
ATOM	18609	CA	MET	2788	34.156	9.364	28.452	1.00	20.41
ATOM	18610	CB	MET	2788	33.417	9.269	29.793	1.00	21.52
ATOM	18611	CG	MET	2788	33.645	7.961	30.546	1.00	24.11
ATOM	18612	SD	MET	2788	35.397	7.699	30.917	1.00	25.02
ATOM	18613	CE	MET	2788	35.761	9.174	31.844	1.00	27.40
ATOM	18614	C	MET	2788	33.405	8.555	27.396	1.00	19.70
ATOM	18615	O	MET	2788	32.811	7.516	27.705	1.00	22.61
ATOM	18616	N	ALA	2789	33.430	9.020	26.152	1.00	19.87
ATOM	18617	CA	ALA	2789	32.736	8.321	25.069	1.00	18.87
ATOM	18618	CB	ALA	2789	32.236	9.326	24.036	1.00	19.03
ATOM	18619	C	ALA	2789	33.627	7.287	24.400	1.00	19.61
ATOM	18620	O	ALA	2789	33.190	6.566	23.502	1.00	18.35
ATOM	18621	N	TYR	2790	34.880	7.213	24.832	1.00	19.23
ATOM	18622	CA	TYR	2790	35.813	6.250	24.257	1.00	20.39
ATOM	18623	CB	TYR	2790	36.632	6.911	23.146	1.00	21.61
ATOM	18624	CG	TYR	2790	37.208	8.255	23.518	1.00	21.98
ATOM	18625	CD1	TYR	2790	38.509	8.373	24.012	1.00	24.51
ATOM	18626	CE1	TYR	2790	39.039	9.625	24.362	1.00	26.09
ATOM	18627	CD2	TYR	2790	36.445	9.413	23.385	1.00	22.55
ATOM	18628	CE2	TYR	2790	36.958	10.661	23.731	1.00	25.20
ATOM	18629	CZ	TYR	2790	38.252	10.760	24.216	1.00	26.07
ATOM	18630	OH	TYR	2790	38.752	12.006	24.538	1.00	28.26
ATOM	18631	C	TYR	2790	36.720	5.685	25.331	1.00	21.20
ATOM	18632	O	TYR	2790	37.905	5.452	25.099	1.00	20.79
ATOM	18633	N	ALA	2791	36.136	5.443	26.501	1.00	20.62
ATOM	18634	CA	ALA	2791	36.863	4.902	27.649	1.00	22.09
ATOM	18635	CB	ALA	2791	35.957	4.894	28.876	1.00	23.98
ATOM	18636	C	ALA	2791	37.401	3.496	27.383	1.00	21.97
ATOM	18637	O	ALA	2791	38.381	3.075	27.994	1.00	22.52
ATOM	18638	N	THR	2792	36.740	2.766	26.491	1.00	20.00
ATOM	18639	CA	THR	2792	37.186	1.431	26.123	1.00	20.70
ATOM	18640	CB	THR	2792	36.348	0.313	26.786	1.00	21.59
ATOM	18641	OG1	THR	2792	35.030	0.310	26.220	1.00	23.40
ATOM	18642	CG2	THR	2792	36.250	0.532	28.297	1.00	20.98
ATOM	18643	C	THR	2792	36.999	1.325	24.616	1.00	21.35
ATOM	18644	O	THR	2792	36.128	1.980	24.052	1.00	19.07
ATOM	18645	N	PRO	2793	37.824	0.510	23.945	1.00	21.50
ATOM	18646	CD	PRO	2793	38.961	-0.267	24.471	1.00	22.59
ATOM	18647	CA	PRO	2793	37.711	0.348	22.494	1.00	22.71
ATOM	18648	CB	PRO	2793	38.738	-0.737	22.197	1.00	23.86
ATOM	18649	CG	PRO	2793	39.806	-0.458	23.233	1.00	24.23
ATOM	18650	C	PRO	2793	36.290	-0.051	22.097	1.00	21.79
ATOM	18651	O	PRO	2793	35.740	0.462	21.124	1.00	20.91
ATOM	18652	N	GLU	2794	35.694	-0.954	22.867	1.00	22.08
ATOM	18653	CA	GLU	2794	34.341	-1.412	22.588	1.00	22.74
ATOM	18654	CB	GLU	2794	33.932	-2.482	23.603	1.00	26.70
ATOM	18655	CG	GLU	2794	32.778	-3.362	23.157	1.00	32.07
ATOM	18656	CD	GLU	2794	32.483	-4.484	24.143	1.00	37.26
ATOM	18657	OE1	GLU	2794	32.076	-4.182	25.291	1.00	38.96
ATOM	18658	OE2	GLU	2794	32.659	-5.669	23.771	1.00	39.39
ATOM	18659	C	GLU	2794	33.367	-0.231	22.628	1.00	21.49
ATOM	18660	O	GLU	2794	32.536	-0.073	21.734	1.00	18.66
ATOM	18661	N	GLN	2795	33.465	0.609	23.652	1.00	19.76
ATOM	18662	CA	GLN	2795	32.574	1.758	23.728	1.00	19.97

ATOM	18663	CB	GLN	2795	32.708	2.444	25.086	1.00	23.38
ATOM	18664	CG	GLN	2795	32.276	1.563	26.239	1.00	30.06
ATOM	18665	CD	GLN	2795	32.302	2.296	27.555	1.00	33.76
ATOM	18666	OE1	GLN	2795	31.557	3.257	27.755	1.00	37.23
ATOM	18667	NE2	GLN	2795	33.164	1.854	28.463	1.00	37.36
ATOM	18668	C	GLN	2795	32.883	2.738	22.602	1.00	18.75
ATOM	18669	O	GLN	2795	31.979	3.379	22.055	1.00	16.21
ATOM	18670	N	ALA	2796	34.160	2.853	22.251	1.00	17.68
ATOM	18671	CA	ALA	2796	34.561	3.740	21.161	1.00	16.76
ATOM	18672	CB	ALA	2796	36.077	3.731	21.019	1.00	17.78
ATOM	18673	C	ALA	2796	33.909	3.306	19.844	1.00	15.71
ATOM	18674	O	ALA	2796	33.408	4.146	19.097	1.00	13.16
ATOM	18675	N	PHE	2797	33.897	2.002	19.567	1.00	16.19
ATOM	18676	CA	PHE	2797	33.302	1.508	18.319	1.00	16.66
ATOM	18677	CB	PHE	2797	33.374	-0.023	18.233	1.00	15.73
ATOM	18678	CG	PHE	2797	34.749	-0.596	18.450	1.00	19.24
ATOM	18679	CD1	PHE	2797	35.882	0.081	18.013	1.00	17.94
ATOM	18680	CD2	PHE	2797	34.907	-1.823	19.088	1.00	17.33
ATOM	18681	CE1	PHE	2797	37.153	-0.453	18.212	1.00	20.94
ATOM	18682	CE2	PHE	2797	36.175	-2.369	19.293	1.00	20.14
ATOM	18683	CZ	PHE	2797	37.299	-1.678	18.853	1.00	18.91
ATOM	18684	C	PHE	2797	31.840	1.925	18.221	1.00	15.33
ATOM	18685	O	PHE	2797	31.398	2.438	17.197	1.00	14.05
ATOM	18686	N	GLU	2798	31.105	1.688	19.305	1.00	17.31
ATOM	18687	CA	GLU	2798	29.687	2.015	19.392	1.00	18.59
ATOM	18688	CB	GLU	2798	29.139	1.537	20.741	1.00	23.40
ATOM	18689	CG	GLU	2798	27.645	1.743	20.953	1.00	27.48
ATOM	18690	CD	GLU	2798	26.801	0.925	19.996	1.00	31.32
ATOM	18691	OE1	GLU	2798	27.266	-0.155	19.566	1.00	34.20
ATOM	18692	OE2	GLU	2798	25.667	1.353	19.685	1.00	34.45
ATOM	18693	C	GLU	2798	29.379	3.507	19.220	1.00	17.82
ATOM	18694	O	GLU	2798	28.510	3.882	18.432	1.00	16.21
ATOM	18695	N	ASN	2799	30.082	4.363	19.956	1.00	17.26
ATOM	18696	CA	ASN	2799	29.808	5.790	19.863	1.00	16.33
ATOM	18697	CB	ASN	2799	30.402	6.521	21.069	1.00	17.15
ATOM	18698	CG	ASN	2799	29.710	6.125	22.369	1.00	20.67
ATOM	18699	OD1	ASN	2799	28.495	5.923	22.388	1.00	17.99
ATOM	18700	ND2	ASN	2799	30.474	6.017	23.455	1.00	17.98
ATOM	18701	C	ASN	2799	30.267	6.411	18.553	1.00	15.61
ATOM	18702	O	ASN	2799	29.615	7.313	18.031	1.00	15.62
ATOM	18703	N	ALA	2800	31.379	-5.915	18.019	1.00	16.20
ATOM	18704	CA	ALA	2800	31.891	6.395	16.748	1.00	16.55
ATOM	18705	CB	ALA	2800	33.233	5.752	16.443	1.00	14.64
ATOM	18706	C	ALA	2800	30.885	6.050	15.653	1.00	16.73
ATOM	18707	O	ALA	2800	30.570	6.877	14.792	1.00	17.09
ATOM	18708	N	ALA	2801	30.375	4.825	15.678	1.00	16.50
ATOM	18709	CA	ALA	2801	29.413	4.412	14.663	1.00	16.96
ATOM	18710	CB	ALA	2801	29.023	2.953	14.865	1.00	17.94
ATOM	18711	C	ALA	2801	28.180	5.306	14.726	1.00	15.19
ATOM	18712	O	ALA	2801	27.618	5.662	13.696	1.00	17.52
ATOM	18713	N	THR	2802	27.765	5.679	15.934	1.00	16.31
ATOM	18714	CA	THR	2802	26.596	6.528	16.082	1.00	15.68
ATOM	18715	CB	THR	2802	26.265	6.808	17.572	1.00	16.35
ATOM	18716	OG1	THR	2802	25.995	5.577	18.252	1.00	14.35
ATOM	18717	CG2	THR	2802	25.041	7.713	17.681	1.00	14.96
ATOM	18718	C	THR	2802	26.778	7.869	15.369	1.00	16.13
ATOM	18719	O	THR	2802	25.895	8.318	14.636	1.00	17.22
ATOM	18720	N	VAL	2803	27.921	8.509	15.580	1.00	16.63
ATOM	18721	CA	VAL	2803	28.186	9.798	14.956	1.00	17.54
ATOM	18722	CB	VAL	2803	29.380	10.502	15.644	1.00	18.75
ATOM	18723	CG1	VAL	2803	29.719	11.786	14.915	1.00	23.96
ATOM	18724	CG2	VAL	2803	29.023	10.813	17.098	1.00	20.56
ATOM	18725	C	VAL	2803	28.449	9.669	13.458	1.00	16.45
ATOM	18726	O	VAL	2803	28.126	10.574	12.684	1.00	18.21
ATOM	18727	N	MET	2804	29.029	8.547	13.051	1.00	16.81
ATOM	18728	CA	MET	2804	29.303	8.304	11.639	1.00	17.14
ATOM	18729	CB	MET	2804	30.229	7.093	11.480	1.00	18.19
ATOM	18730	CG	MET	2804	31.654	7.295	11.995	1.00	22.52
ATOM	18731	SD	MET	2804	32.594	8.461	10.990	1.00	24.27
ATOM	18732	CE	MET	2804	32.659	7.556	9.422	1.00	20.51
ATOM	18733	C	MET	2804	27.984	8.063	10.903	1.00	16.01
ATOM	18734	O	MET	2804	27.761	8.618	9.824	1.00	15.88
ATOM	18735	N	ARG	2805	27.101	7.248	11.481	1.00	15.73
ATOM	18736	CA	ARG	2805	25.822	6.986	10.831	1.00	15.34
ATOM	18737	CB	ARG	2805	25.011	5.925	11.596	1.00	13.01
ATOM	18738	CG	ARG	2805	25.647	4.539	11.632	1.00	16.75
ATOM	18739	CD	ARG	2805	24.645	3.460	12.060	1.00	13.35

ATOM	18740	NE	ARG	2805	25.314	2.212	12.432	1.00	18.35
ATOM	18741	CZ	ARG	2805	25.762	1.941	13.652	1.00	16.28
ATOM	18742	NH1	ARG	2805	25.609	2.829	14.630	1.00	18.45
ATOM	18743	NH2	ARG	2805	26.369	0.789	13.894	1.00	17.59
ATOM	18744	C	ARG	2805	24.999	8.268	10.718	1.00	15.55
ATOM	18745	O	ARG	2805	24.179	8.404	9.817	1.00	14.99
ATOM	18746	N	ALA	2806	25.232	9.207	11.633	1.00	16.80
ATOM	18747	CA	ALA	2806	24.502	10.473	11.639	1.00	16.91
ATOM	18748	CB	ALA	2806	24.548	11.095	13.030	1.00	16.95
ATOM	18749	C	ALA	2806	24.997	11.483	10.602	1.00	18.90
ATOM	18750	O	ALA	2806	24.425	12.567	10.466	1.00	16.85
ATOM	18751	N	GLY	2807	26.062	11.144	9.880	1.00	17.86
ATOM	18752	CA	GLY	2807	26.555	12.055	8.862	1.00	20.83
ATOM	18753	C	GLY	2807	28.042	12.344	8.866	1.00	19.96
ATOM	18754	O	GLY	2807	28.583	12.841	7.873	1.00	20.33
ATOM	18755	N	ALA	2808	28.706	12.039	9.976	1.00	20.84
ATOM	18756	CA	ALA	2808	30.141	12.279	10.094	1.00	20.51
ATOM	18757	CB	ALA	2808	30.596	12.030	11.532	1.00	21.43
ATOM	18758	C	ALA	2808	30.983	11.433	9.140	1.00	22.32
ATOM	18759	O	ALA	2808	30.583	10.340	8.734	1.00	22.72
ATOM	18760	N	ASN	2809	32.154	11.954	8.783	1.00	21.83
ATOM	18761	CA	ASN	2809	33.076	11.252	7.895	1.00	23.00
ATOM	18762	CB	ASN	2809	33.563	12.161	6.756	1.00	23.04
ATOM	18763	CG	ASN	2809	32.454	12.563	5.813	1.00	22.97
ATOM	18764	OD1	ASN	2809	31.720	11.715	5.303	1.00	26.20
ATOM	18765	ND2	ASN	2809	32.329	13.856	5.567	1.00	24.82
ATOM	18766	C	ASN	2809	34.281	10.828	8.713	1.00	23.50
ATOM	18767	O	ASN	2809	34.991	9.885	8.365	1.00	22.98
ATOM	18768	N	MET	2810	34.503	11.531	9.815	1.00	23.62
ATOM	18769	CA	MET	2810	35.642	11.247	10.669	1.00	23.93
ATOM	18770	CB	MET	2810	36.853	12.052	10.181	1.00	25.09
ATOM	18771	CG	MET	2810	38.126	11.879	10.995	1.00	24.78
ATOM	18772	SD	MET	2810	39.481	12.847	10.255	1.00	28.00
ATOM	18773	CE	MET	2810	40.353	11.582	9.303	1.00	27.11
ATOM	18774	C	MET	2810	35.318	11.602	12.112	1.00	22.92
ATOM	18775	O	MET	2810	34.490	12.469	12.377	1.00	22.76
ATOM	18776	N	VAL	2811	35.972	10.912	13.037	1.00	21.54
ATOM	18777	CA	VAL	2811	35.767	11.144	14.452	1.00	22.27
ATOM	18778	CB	VAL	2811	35.345	9.840	15.156	1.00	22.64
ATOM	18779	CG1	VAL	2811	35.310	10.042	16.639	1.00	27.23
ATOM	18780	CG2	VAL	2811	33.972	9.399	14.652	1.00	23.31
ATOM	18781	C	VAL	2811	37.052	11.665	15.092	1.00	21.34
ATOM	18782	O	VAL	2811	38.151	11.238	14.729	1.00	20.30
ATOM	18783	N	LYS	2812	36.912	12.593	16.037	1.00	21.70
ATOM	18784	CA	LYS	2812	38.066	13.153	16.737	1.00	21.55
ATOM	18785	CB	LYS	2812	38.114	14.679	16.577	1.00	20.79
ATOM	18786	CG	LYS	2812	39.283	15.330	17.324	1.00	22.48
ATOM	18787	CD	LYS	2812	39.567	16.749	16.830	1.00	21.07
ATOM	18788	CE	LYS	2812	38.508	17.730	17.295	1.00	21.59
ATOM	18789	NZ	LYS	2812	38.526	17.887	18.777	1.00	19.95
ATOM	18790	C	LYS	2812	38.027	12.803	18.216	1.00	21.09
ATOM	18791	O	LYS	2812	37.000	12.967	18.873	1.00	20.83
ATOM	18792	N	ILE	2813	39.151	12.311	18.729	1.00	23.63
ATOM	18793	CA	ILE	2813	39.271	11.941	20.138	1.00	25.12
ATOM	18794	CB	ILE	2813	39.341	10.403	20.318	1.00	26.14
ATOM	18795	CG2	ILE	2813	38.018	9.763	19.878	1.00	25.11
ATOM	18796	CG1	ILE	2813	40.495	9.829	19.499	1.00	27.05
ATOM	18797	CD1	ILE	2813	40.733	8.341	19.742	1.00	28.78
ATOM	18798	C	ILE	2813	40.542	12.560	20.735	1.00	27.72
ATOM	18799	O	ILE	2813	41.580	12.607	20.078	1.00	26.81
ATOM	18800	N	GLU	2814	40.454	13.028	21.978	1.00	29.43
ATOM	18801	CA	GLU	2814	41.591	13.651	22.650	1.00	32.04
ATOM	18802	CB	GLU	2814	41.106	14.813	23.522	1.00	34.21
ATOM	18803	CG	GLU	2814	40.144	15.750	22.806	1.00	39.30
ATOM	18804	CD	GLU	2814	39.764	16.966	23.636	1.00	41.47
ATOM	18805	OE1	GLU	2814	39.370	16.798	24.812	1.00	41.55
ATOM	18806	OE2	GLU	2814	39.852	18.093	23.105	1.00	44.11
ATOM	18807	C	GLU	2814	42.364	12.655	23.509	1.00	31.92
ATOM	18808	O	GLU	2814	41.779	11.914	24.296	1.00	33.22
ATOM	18809	N	GLY	2815	43.684	12.641	23.354	1.00	30.77
ATOM	18810	CA	GLY	2815	44.506	11.729	24.126	1.00	30.34
ATOM	18811	C	GLY	2815	45.801	11.392	23.415	1.00	31.29
ATOM	18812	O	GLY	2815	45.975	11.705	22.234	1.00	30.87
ATOM	18813	N	GLY	2816	46.715	10.748	24.134	1.00	31.99
ATOM	18814	CA	GLY	2816	47.992	10.387	23.547	1.00	33.07
ATOM	18815	C	GLY	2816	48.172	8.903	23.294	1.00	34.28
ATOM	18816	O	GLY	2816	47.325	8.261	22.675	1.00	34.33

ATOM	18817	N	GLU	2817	49.285	8.364	23.783	1.00	34.03
ATOM	18818	CA	GLU	2817	49.631	6.956	23.615	1.00	34.66
ATOM	18819	CB	GLU	2817	50.925	6.647	24.376	1.00	37.31
ATOM	18820	CG	GLU	2817	52.196	7.025	23.634	1.00	40.46
ATOM	18821	CD	GLU	2817	52.586	5.990	22.591	1.00	42.88
ATOM	18822	OE1	GLU	2817	51.711	5.590	21.793	1.00	44.37
ATOM	18823	OE2	GLU	2817	53.767	5.582	22.567	1.00	42.78
ATOM	18824	C	GLU	2817	48.569	5.946	24.032	1.00	33.69
ATOM	18825	O	GLU	2817	48.395	4.923	23.369	1.00	34.29
ATOM	18826	N	TRP	2818	47.866	6.220	25.127	1.00	32.46
ATOM	18827	CA	TRP	2818	46.855	5.290	25.613	1.00	30.43
ATOM	18828	CB	TRP	2818	46.254	5.779	26.942	1.00	30.40
ATOM	18829	CG	TRP	2818	45.293	6.930	26.822	1.00	29.06
ATOM	18830	CD2	TRP	2818	43.862	6.850	26.831	1.00	28.87
ATOM	18831	CE2	TRP	2818	43.367	8.166	26.698	1.00	28.69
ATOM	18832	CE3	TRP	2818	42.950	5.791	26.941	1.00	27.56
ATOM	18833	CD1	TRP	2818	45.601	8.252	26.684	1.00	30.79
ATOM	18834	NE1	TRP	2818	44.448	9.005	26.609	1.00	30.25
ATOM	18835	CZ2	TRP	2818	41.997	8.451	26.667	1.00	27.27
ATOM	18836	CZ3	TRP	2818	41.590	6.074	26.910	1.00	27.33
ATOM	18837	CH2	TRP	2818	41.127	7.399	26.776	1.00	27.02
ATOM	18838	C	TRP	2818	45.737	5.048	24.604	1.00	28.89
ATOM	18839	O	TRP	2818	44.964	4.105	24.741	1.00	30.31
ATOM	18840	N	LEU	2819	45.656	5.892	23.585	1.00	27.35
ATOM	18841	CA	LEU	2819	44.616	5.744	22.579	1.00	26.42
ATOM	18842	CB	LEU	2819	44.132	7.118	22.115	1.00	26.77
ATOM	18843	CG	LEU	2819	43.245	7.896	23.085	1.00	28.13
ATOM	18844	CD1	LEU	2819	42.926	9.257	22.487	1.00	29.42
ATOM	18845	CD2	LEU	2819	41.969	7.121	23.358	1.00	29.42
ATOM	18846	C	LEU	2819	45.040	4.930	21.364	1.00	25.13
ATOM	18847	O	LEU	2819	44.218	4.647	20.497	1.00	21.39
ATOM	18848	N	VAL	2820	46.315	4.550	21.297	1.00	24.43
ATOM	18849	CA	VAL	2820	46.814	3.783	20.155	1.00	26.56
ATOM	18850	CB	VAL	2820	48.258	3.281	20.395	1.00	26.68
ATOM	18851	CG1	VAL	2820	48.671	2.330	19.282	1.00	27.02
ATOM	18852	CG2	VAL	2820	49.210	4.461	20.446	1.00	28.43
ATOM	18853	C	VAL	2820	45.942	2.587	19.774	1.00	25.78
ATOM	18854	O	VAL	2820	45.503	2.471	18.631	1.00	27.60
ATOM	18855	N	GLU	2821	45.704	1.696	20.729	1.00	24.73
ATOM	18856	CA	GLU	2821	44.895	0.514	20.477	1.00	25.30
ATOM	18857	CB	GLU	2821	44.782	-0.321	21.755	1.00	28.80
ATOM	18858	CG	GLU	2821	44.051	-1.643	21.574	1.00	32.13
ATOM	18859	CD	GLU	2821	43.926	-2.416	22.870	1.00	35.13
ATOM	18860	OE1	GLU	2821	43.340	-1.871	23.830	1.00	36.98
ATOM	18861	OE2	GLU	2821	44.410	-3.566	22.927	1.00	36.11
ATOM	18862	C	GLU	2821	43.501	0.876	19.962	1.00	24.62
ATOM	18863	O	GLU	2821	42.979	0.236	19.046	1.00	21.97
ATOM	18864	N	THR	2822	42.900	1.905	20.549	1.00	24.29
ATOM	18865	CA	THR	2822	41.568	2.336	20.141	1.00	23.99
ATOM	18866	CB	THR	2822	41.021	3.415	21.099	1.00	24.68
ATOM	18867	OG1	THR	2822	40.929	2.868	22.422	1.00	24.15
ATOM	18868	CG2	THR	2822	39.635	3.882	20.652	1.00	23.04
ATOM	18869	C	THR	2822	41.590	2.876	18.715	1.00	24.63
ATOM	18870	O	THR	2822	40.671	2.631	17.927	1.00	21.47
ATOM	18871	N	VAL	2823	42.645	3.611	18.381	1.00	23.83
ATOM	18872	CA	VAL	2823	42.785	4.170	17.041	1.00	23.79
ATOM	18873	CB	VAL	2823	44.002	5.116	16.961	1.00	25.30
ATOM	18874	CG1	VAL	2823	44.159	5.638	15.535	1.00	25.93
ATOM	18875	CG2	VAL	2823	43.816	6.276	17.928	1.00	25.50
ATOM	18876	C	VAL	2823	42.948	3.063	16.005	1.00	23.15
ATOM	18877	O	VAL	2823	42.275	3.063	14.974	1.00	21.77
ATOM	18878	N	GLN	2824	43.839	2.117	16.296	1.00	24.00
ATOM	18879	CA	GLN	2824	44.106	1.000	15.395	1.00	24.92
ATOM	18880	CB	GLN	2824	45.156	0.068	16.005	1.00	27.02
ATOM	18881	CG	GLN	2824	46.476	0.737	16.333	1.00	33.50
ATOM	18882	CD	GLN	2824	47.494	-0.229	16.908	1.00	35.79
ATOM	18883	OE1	GLN	2824	47.242	-0.891	17.917	1.00	38.12
ATOM	18884	NE2	GLN	2824	48.656	-0.312	16.267	1.00	38.24
ATOM	18885	C	GLN	2824	42.840	0.207	15.101	1.00	23.85
ATOM	18886	O	GLN	2824	42.518	-0.057	13.946	1.00	25.38
ATOM	18887	N	MET	2825	42.126	-0.167	16.155	1.00	23.02
ATOM	18888	CA	MET	2825	40.905	-0.946	16.010	1.00	22.80
ATOM	18889	CB	MET	2825	40.438	-1.426	17.385	1.00	23.09
ATOM	18890	CG	MET	2825	41.414	-2.396	18.028	1.00	24.85
ATOM	18891	SD	MET	2825	40.854	-3.051	19.588	1.00	26.27
ATOM	18892	CE	MET	2825	39.744	-4.323	19.026	1.00	27.47
ATOM	18893	C	MET	2825	39.786	-0.196	15.298	1.00	20.09

ATOM	18894	O	MET	2825	39.024	-0.793	14.543	1.00	19.10
ATOM	18895	N	LEU	2826	39.685	1.109	15.537	1.00	20.85
ATOM	18896	CA	LEU	2826	38.655	1.915	14.893	1.00	22.61
ATOM	18897	CB	LEU	2826	38.620	3.325	15.488	1.00	20.71
ATOM	18898	CG	LEU	2826	37.867	3.457	16.819	1.00	23.07
ATOM	18899	CD1	LEU	2826	38.183	4.783	17.487	1.00	21.86
ATOM	18900	CD2	LEU	2826	36.373	3.333	16.548	1.00	21.56
ATOM	18901	C	LEU	2826	38.883	1.998	13.385	1.00	24.44
ATOM	18902	O	LEU	2826	37.944	1.870	12.597	1.00	22.55
ATOM	18903	N	THR	2827	40.135	2.204	12.990	1.00	26.28
ATOM	18904	CA	THR	2827	40.474	2.301	11.578	1.00	29.53
ATOM	18905	CB	THR	2827	41.988	2.511	11.384	1.00	30.21
ATOM	18906	OG1	THR	2827	42.382	3.734	12.020	1.00	34.27
ATOM	18907	CG2	THR	2827	42.327	2.588	9.901	1.00	33.86
ATOM	18908	C	THR	2827	40.034	1.060	10.795	1.00	27.89
ATOM	18909	O	THR	2827	39.349	1.173	9.779	1.00	28.82
ATOM	18910	N	GLU	2828	40.416	-0.121	11.268	1.00	28.30
ATOM	18911	CA	GLU	2828	40.041	-1.350	10.580	1.00	28.55
ATOM	18912	CB	GLU	2828	40.775	-2.548	11.179	1.00	30.32
ATOM	18913	CG	GLU	2828	41.107	-2.404	12.638	1.00	31.98
ATOM	18914	CD	GLU	2828	41.836	-3.614	13.180	1.00	32.11
ATOM	18915	OE1	GLU	2828	42.836	-4.041	12.564	1.00	32.16
ATOM	18916	OE2	GLU	2828	41.415	-4.134	14.235	1.00	30.79
ATOM	18917	C	GLU	2828	38.540	-1.588	10.592	1.00	27.06
ATOM	18918	O	GLU	2828	38.030	-2.412	9.831	1.00	27.55
ATOM	18919	N	ARG	2829	37.829	-0.857	11.444	1.00	23.40
ATOM	18920	CA	ARG	2829	36.384	-0.997	11.513	1.00	22.00
ATOM	18921	CB	ARG	2829	35.931	-1.037	12.973	1.00	20.32
ATOM	18922	CG	ARG	2829	36.241	-2.378	13.629	1.00	19.39
ATOM	18923	CD	ARG	2829	36.285	-2.294	15.140	1.00	18.70
ATOM	18924	NE	ARG	2829	36.650	-3.585	15.719	1.00	16.89
ATOM	18925	CZ	ARG	2829	37.869	-4.112	15.666	1.00	17.72
ATOM	18926	NH1	ARG	2829	38.856	-3.459	15.065	1.00	16.97
ATOM	18927	NH2	ARG	2829	38.102	-5.303	16.201	1.00	21.33
ATOM	18928	C	ARG	2829	35.674	0.104	10.739	1.00	20.80
ATOM	18929	O	ARG	2829	34.536	0.458	11.040	1.00	19.63
ATOM	18930	N	ALA	2830	36.368	0.642	9.737	1.00	21.90
ATOM	18931	CA	ALA	2830	35.825	1.680	8.856	1.00	21.97
ATOM	18932	CB	ALA	2830	34.474	1.223	8.305	1.00	22.04
ATOM	18933	C	ALA	2830	35.690	3.086	9.435	1.00	22.69
ATOM	18934	O	ALA	2830	35.042	3.937	8.828	1.00	22.61
ATOM	18935	N	VAL	2831	36.297	3.341	10.589	1.00	22.14
ATOM	18936	CA	VAL	2831	36.194	4.662	11.194	1.00	22.55
ATOM	18937	CB	VAL	2831	35.679	4.570	12.651	1.00	23.25
ATOM	18938	CG1	VAL	2831	35.612	5.957	13.264	1.00	22.11
ATOM	18939	CG2	VAL	2831	34.300	3.910	12.684	1.00	21.29
ATOM	18940	C	VAL	2831	37.520	5.427	11.207	1.00	22.41
ATOM	18941	O	VAL	2831	38.439	5.071	11.940	1.00	21.58
ATOM	18942	N	PRO	2832	37.634	6.490	10.389	1.00	22.74
ATOM	18943	CD	PRO	2832	36.681	6.962	9.370	1.00	23.21
ATOM	18944	CA	PRO	2832	38.870	7.279	10.350	1.00	23.36
ATOM	18945	CB	PRO	2832	38.710	8.110	9.081	1.00	24.93
ATOM	18946	CG	PRO	2832	37.244	8.323	9.011	1.00	26.31
ATOM	18947	C	PRO	2832	38.961	8.129	11.611	1.00	23.38
ATOM	18948	O	PRO	2832	37.954	8.644	12.093	1.00	20.50
ATOM	18949	N	VAL	2833	40.169	8.274	12.143	1.00	23.46
ATOM	18950	CA	VAL	2833	40.352	9.035	13.368	1.00	24.56
ATOM	18951	CB	VAL	2833	40.985	8.147	14.466	1.00	25.29
ATOM	18952	CG1	VAL	2833	41.061	8.909	15.778	1.00	26.10
ATOM	18953	CG2	VAL	2833	40.167	6.869	14.638	1.00	26.15
ATOM	18954	C	VAL	2833	41.206	10.284	13.203	1.00	26.06
ATOM	18955	O	VAL	2833	42.156	10.307	12.420	1.00	22.96
ATOM	18956	N	CYS	2834	40.842	11.325	13.943	1.00	26.64
ATOM	18957	CA	CYS	2834	41.580	12.583	13.943	1.00	27.09
ATOM	18958	CB	CYS	2834	40.683	13.755	13.553	1.00	27.30
ATOM	18959	SG	CYS	2834	41.516	15.369	13.665	1.00	27.45
ATOM	18960	C	CYS	2834	42.098	12.794	15.358	1.00	28.85
ATOM	18961	O	CYS	2834	41.316	12.957	16.297	1.00	28.83
ATOM	18962	N	GLY	2835	43.418	12.776	15.508	1.00	29.22
ATOM	18963	CA	GLY	2835	44.014	12.970	16.816	1.00	29.92
ATOM	18964	C	GLY	2835	43.832	14.382	17.336	1.00	30.47
ATOM	18965	O	GLY	2835	43.460	15.288	16.590	1.00	28.61
ATOM	18966	N	HIS	2836	44.100	14.561	18.624	1.00	31.84
ATOM	18967	CA	HIS	2836	43.971	15.860	19.274	1.00	35.35
ATOM	18968	CB	HIS	2836	42.553	16.033	19.816	1.00	36.73
ATOM	18969	CG	HIS	2836	42.276	17.396	20.366	1.00	38.60
ATOM	18970	CD2	HIS	2836	42.821	18.067	21.409	1.00	39.81

ATOM	18971	ND1	HIS	2836	41.313	18.226	19.837	1.00	39.91
ATOM	18972	CE1	HIS	2836	41.274	19.350	20.531	1.00	41.13
ATOM	18973	NE2	HIS	2836	42.180	19.278	21.490	1.00	41.39
ATOM	18974	C	HIS	2836	44.973	15.941	20.420	1.00	36.62
ATOM	18975	O	HIS	2836	44.800	15.291	21.452	1.00	34.99
ATOM	18976	N	LEU	2837	46.018	16.742	20.231	1.00	38.21
ATOM	18977	CA	LEU	2837	47.059	16.905	21.239	1.00	41.31
ATOM	18978	CB	LEU	2837	48.365	16.279	20.745	1.00	40.92
ATOM	18979	CG	LEU	2837	48.343	14.765	20.510	1.00	40.97
ATOM	18980	CD1	LEU	2837	49.609	14.330	19.794	1.00	41.01
ATOM	18981	CD2	LEU	2837	48.201	14.051	21.840	1.00	41.35
ATOM	18982	C	LEU	2837	47.285	18.377	21.557	1.00	43.49
ATOM	18983	O	LEU	2837	46.981	19.249	20.745	1.00	43.31
ATOM	18984	N	GLY	2838	47.820	18.647	22.743	1.00	46.60
ATOM	18985	CA	GLY	2838	48.077	20.018	23.141	1.00	50.65
ATOM	18986	C	GLY	2838	47.359	20.378	24.425	1.00	53.60
ATOM	18987	O	GLY	2838	47.800	20.013	25.514	1.00	54.57
ATOM	18988	N	LEU	2839	46.246	21.092	24.297	1.00	56.02
ATOM	18989	CA	LEU	2839	45.466	21.503	25.457	1.00	58.56
ATOM	18990	CB	LEU	2839	45.363	23.032	25.490	1.00	58.83
ATOM	18991	CG	LEU	2839	45.049	23.710	26.827	1.00	59.71
ATOM	18992	CD1	LEU	2839	45.256	25.209	26.685	1.00	60.17
ATOM	18993	CD2	LEU	2839	43.631	23.394	27.263	1.00	59.46
ATOM	18994	C	LEU	2839	44.074	20.875	25.377	1.00	60.00
ATOM	18995	O	LEU	2839	43.142	21.473	24.843	1.00	60.93
ATOM	18996	N	THR	2840	43.944	19.663	25.910	1.00	61.24
ATOM	18997	CA	THR	2840	42.672	18.946	25.892	1.00	62.45
ATOM	18998	CB	THR	2840	42.879	17.438	26.157	1.00	62.30
ATOM	18999	OG1	THR	2840	43.477	17.254	27.446	1.00	62.47
ATOM	19000	CG2	THR	2840	43.782	16.831	25.094	1.00	62.36
ATOM	19001	C	THR	2840	41.688	19.493	26.925	1.00	63.01
ATOM	19002	O	THR	2840	41.915	19.383	28.131	1.00	63.56
ATOM	19003	N	PRO	2841	40.577	20.090	26.460	1.00	63.41
ATOM	19004	CD	PRO	2841	40.230	20.321	25.046	1.00	63.65
ATOM	19005	CA	PRO	2841	39.553	20.658	27.343	1.00	63.37
ATOM	19006	CB	PRO	2841	38.678	21.457	26.380	1.00	63.72
ATOM	19007	CG	PRO	2841	38.754	20.648	25.127	1.00	64.24
ATOM	19008	C	PRO	2841	38.756	19.614	28.127	1.00	62.86
ATOM	19009	O	PRO	2841	38.222	19.911	29.196	1.00	62.53
ATOM	19010	N	GLN	2842	38.676	18.397	27.594	1.00	62.50
ATOM	19011	CA	GLN	2842	37.945	17.320	28.258	1.00	62.12
ATOM	19012	CB	GLN	2842	37.873	16.081	27.359	1.00	62.10
ATOM	19013	CG	GLN	2842	36.798	16.147	26.282	1.00	61.81
ATOM	19014	CD	GLN	2842	36.712	14.871	25.465	1.00	61.57
ATOM	19015	OE1	GLN	2842	36.650	13.772	26.016	1.00	61.29
ATOM	19016	NE2	GLN	2842	36.698	15.012	24.145	1.00	61.54
ATOM	19017	C	GLN	2842	38.583	16.942	29.591	1.00	61.81
ATOM	19018	O	GLN	2842	37.955	16.293	30.429	1.00	61.09
ATOM	19019	N	SER	2843	39.833	17.352	29.781	1.00	61.46
ATOM	19020	CA	SER	2843	40.557	17.060	31.012	1.00	61.52
ATOM	19021	CB	SER	2843	41.890	16.381	30.689	1.00	61.26
ATOM	19022	OG	SER	2843	41.690	15.191	29.947	1.00	61.14
ATOM	19023	C	SER	2843	40.810	18.342	31.798	1.00	61.57
ATOM	19024	O	SER	2843	41.905	18.555	32.320	1.00	62.21
ATOM	19025	N	VAL	2844	39.790	19.191	31.879	1.00	61.40
ATOM	19026	CA	VAL	2844	39.894	20.460	32.593	1.00	61.08
ATOM	19027	CB	VAL	2844	38.645	21.343	32.336	1.00	60.81
ATOM	19028	CG1	VAL	2844	37.385	20.609	32.764	1.00	60.34
ATOM	19029	CG2	VAL	2844	38.775	22.662	33.080	1.00	60.79
ATOM	19030	C	VAL	2844	40.066	20.259	34.101	1.00	61.01
ATOM	19031	O	VAL	2844	40.803	21.001	34.754	1.00	60.58
ATOM	19032	N	ASN	2845	39.389	19.251	34.644	1.00	61.15
ATOM	19033	CA	ASN	2845	39.460	18.947	36.071	1.00	61.73
ATOM	19034	CB	ASN	2845	38.364	17.946	36.449	1.00	60.56
ATOM	19035	CG	ASN	2845	36.970	18.499	36.230	1.00	59.61
ATOM	19036	OD1	ASN	2845	36.548	19.436	36.907	1.00	58.50
ATOM	19037	ND2	ASN	2845	36.249	17.924	35.275	1.00	59.70
ATOM	19038	C	ASN	2845	40.821	18.388	36.475	1.00	62.60
ATOM	19039	O	ASN	2845	41.296	18.629	37.586	1.00	62.03
ATOM	19040	N	ILE	2846	41.441	17.636	35.570	1.00	64.05
ATOM	19041	CA	ILE	2846	42.750	17.046	35.831	1.00	65.55
ATOM	19042	CB	ILE	2846	43.208	16.151	34.651	1.00	65.57
ATOM	19043	CG2	ILE	2846	44.609	15.612	34.915	1.00	65.70
ATOM	19044	CG1	ILE	2846	42.223	14.995	34.453	1.00	65.59
ATOM	19045	CD1	ILE	2846	42.118	14.057	35.643	1.00	65.41
ATOM	19046	C	ILE	2846	43.795	18.137	36.051	1.00	66.57
ATOM	19047	O	ILE	2846	44.490	18.150	37.066	1.00	66.67



ATOM	19048	N	PHE	2847	43.896	19.053	35.092	1.00	67.71
ATOM	19049	CA	PHE	2847	44.855	20.149	35.172	1.00	68.89
ATOM	19050	CB	PHE	2847	45.158	20.684	33.771	1.00	69.22
ATOM	19051	CG	PHE	2847	45.618	19.630	32.807	1.00	69.88
ATOM	19052	CD1	PHE	2847	46.776	18.899	33.055	1.00	70.09
ATOM	19053	CD2	PHE	2847	44.892	19.365	31.649	1.00	70.08
ATOM	19054	CE1	PHE	2847	47.206	17.918	32.164	1.00	70.40
ATOM	19055	CE2	PHE	2847	45.311	18.387	30.751	1.00	70.36
ATOM	19056	CZ	PHE	2847	46.471	17.661	31.009	1.00	70.74
ATOM	19057	C	PHE	2847	44.333	21.284	36.050	1.00	69.49
ATOM	19058	O	PHE	2847	45.040	22.262	36.299	1.00	69.68
ATOM	19059	N	GLY	2848	43.094	21.149	36.513	1.00	69.83
ATOM	19060	CA	GLY	2848	42.502	22.174	37.353	1.00	70.24
ATOM	19061	C	GLY	2848	42.298	23.478	36.605	1.00	70.50
ATOM	19062	O	GLY	2848	42.086	24.528	37.212	1.00	70.31
ATOM	19063	N	GLY	2849	42.363	23.407	35.280	1.00	71.04
ATOM	19064	CA	GLY	2849	42.185	24.591	34.459	1.00	71.60
ATOM	19065	C	GLY	2849	42.700	24.367	33.051	1.00	72.16
ATOM	19066	O	GLY	2849	42.776	23.228	32.589	1.00	72.14
ATOM	19067	N	TYR	2850	43.056	25.450	32.366	1.00	72.95
ATOM	19068	CA	TYR	2850	43.570	25.353	31.005	1.00	73.65
ATOM	19069	CB	TYR	2850	42.679	26.142	30.038	1.00	73.69
ATOM	19070	CG	TYR	2850	41.257	25.633	29.969	1.00	74.01
ATOM	19071	CD1	TYR	2850	40.353	25.887	31.001	1.00	74.35
ATOM	19072	CE1	TYR	2850	39.050	25.395	30.956	1.00	74.49
ATOM	19073	CD2	TYR	2850	40.821	24.871	28.883	1.00	74.02
ATOM	19074	CE2	TYR	2850	39.520	24.373	28.828	1.00	74.41
ATOM	19075	CZ	TYR	2850	38.641	24.639	29.868	1.00	74.86
ATOM	19076	OH	TYR	2850	37.355	24.146	29.826	1.00	75.22
ATOM	19077	C	TYR	2850	45.007	25.853	30.907	1.00	74.10
ATOM	19078	O	TYR	2850	45.256	27.059	30.847	1.00	74.16
ATOM	19079	N	LYS	2851	45.947	24.913	30.892	1.00	74.74
ATOM	19080	CA	LYS	2851	47.369	25.229	30.801	1.00	75.33
ATOM	19081	CB	LYS	2851	48.166	24.299	31.719	1.00	75.40
ATOM	19082	CG	LYS	2851	47.704	24.325	33.168	1.00	75.61
ATOM	19083	CD	LYS	2851	48.399	23.258	33.998	1.00	75.38
ATOM	19084	CE	LYS	2851	47.875	23.249	35.426	1.00	75.26
ATOM	19085	NZ	LYS	2851	48.476	22.152	36.233	1.00	74.92
ATOM	19086	C	LYS	2851	47.845	25.070	29.358	1.00	75.66
ATOM	19087	O	LYS	2851	47.572	24.057	28.714	1.00	76.01
ATOM	19088	N	VAL	2852	48.557	26.073	28.857	1.00	75.85
ATOM	19089	CA	VAL	2852	49.062	26.043	27.489	1.00	76.08
ATOM	19090	CB	VAL	2852	49.525	27.448	27.036	1.00	75.99
ATOM	19091	CG1	VAL	2852	49.922	27.421	25.568	1.00	75.65
ATOM	19092	CG2	VAL	2852	48.417	28.463	27.273	1.00	75.82
ATOM	19093	C	VAL	2852	50.234	25.074	27.346	1.00	76.39
ATOM	19094	O	VAL	2852	51.395	25.484	27.394	1.00	76.33
ATOM	19095	N	GLN	2853	49.930	23.789	27.173	1.00	76.70
ATOM	19096	CA	GLN	2853	50.971	22.777	27.016	1.00	77.12
ATOM	19097	CB	GLN	2853	50.360	21.375	26.913	1.00	77.23
ATOM	19098	CG	GLN	2853	50.094	20.680	28.247	1.00	76.94
ATOM	19099	CD	GLN	2853	48.944	21.289	29.021	1.00	76.79
ATOM	19100	OE1	GLN	2853	47.825	21.379	28.519	1.00	76.67
ATOM	19101	NE2	GLN	2853	49.210	21.699	30.256	1.00	77.11
ATOM	19102	C	GLN	2853	51.813	23.054	25.774	1.00	77.33
ATOM	19103	O	GLN	2853	51.369	23.740	24.853	1.00	77.15
ATOM	19104	N	GLY	2854	53.027	22.514	25.755	1.00	77.75
ATOM	19105	CA	GLY	2854	53.911	22.717	24.622	1.00	78.29
ATOM	19106	C	GLY	2854	55.254	23.293	25.028	1.00	78.76
ATOM	19107	O	GLY	2854	56.190	23.331	24.228	1.00	78.78
ATOM	19108	N	ARG	2855	55.348	23.744	26.276	1.00	79.02
ATOM	19109	CA	ARG	2855	56.584	24.320	26.800	1.00	79.07
ATOM	19110	CB	ARG	2855	56.271	25.282	27.954	1.00	79.32
ATOM	19111	CG	ARG	2855	55.397	26.471	27.572	1.00	79.76
ATOM	19112	CD	ARG	2855	56.115	27.420	26.620	1.00	80.09
ATOM	19113	NE	ARG	2855	55.254	28.516	26.174	1.00	80.24
ATOM	19114	CZ	ARG	2855	54.727	29.437	26.976	1.00	79.98
ATOM	19115	NH1	ARG	2855	54.968	29.406	28.280	1.00	79.86
ATOM	19116	NH2	ARG	2855	53.956	30.393	26.473	1.00	79.79
ATOM	19117	C	ARG	2855	57.524	23.222	27.293	1.00	78.89
ATOM	19118	O	ARG	2855	57.079	22.176	27.767	1.00	78.88
ATOM	19119	N	GLY	2856	58.826	23.468	27.179	1.00	78.53
ATOM	19120	CA	GLY	2856	59.805	22.492	27.619	1.00	78.02
ATOM	19121	C	GLY	2856	60.118	21.456	26.557	1.00	77.79
ATOM	19122	O	GLY	2856	59.439	21.382	25.532	1.00	77.80
ATOM	19123	N	ASP	2857	61.150	20.655	26.802	1.00	77.36
ATOM	19124	CA	ASP	2857	61.555	19.616	25.861	1.00	76.70

ATOM	19125	CB	ASP	2857	63.077	19.446	25.875	1.00	76.96
ATOM	19126	CG	ASP	2857	63.801	20.634	25.273	1.00	77.36
ATOM	19127	OD1	ASP	2857	63.527	20.962	24.099	1.00	77.51
ATOM	19128	OD2	ASP	2857	64.644	21.235	25.971	1.00	77.38
ATOM	19129	C	ASP	2857	60.892	18.282	26.177	1.00	75.97
ATOM	19130	O	ASP	2857	60.391	17.606	25.280	1.00	76.56
ATOM	19131	N	GLU	2858	60.896	17.901	27.450	1.00	74.75
ATOM	19132	CA	GLU	2858	60.288	16.644	27.863	1.00	73.64
ATOM	19133	CB	GLU	2858	60.368	16.484	29.383	1.00	74.08
ATOM	19134	CG	GLU	2858	59.765	15.184	29.899	1.00	74.86
ATOM	19135	CD	GLU	2858	59.856	15.050	31.408	1.00	75.46
ATOM	19136	OE1	GLU	2858	60.986	15.074	31.941	1.00	75.97
ATOM	19137	OE2	GLU	2858	58.798	14.918	32.061	1.00	75.55
ATOM	19138	C	GLU	2858	58.831	16.596	27.416	1.00	72.68
ATOM	19139	O	GLU	2858	58.319	15.537	27.056	1.00	72.94
ATOM	19140	N	ALA	2859	58.172	17.751	27.441	1.00	71.17
ATOM	19141	CA	ALA	2859	56.774	17.848	27.036	1.00	69.66
ATOM	19142	CB	ALA	2859	56.091	18.987	27.786	1.00	69.37
ATOM	19143	C	ALA	2859	56.682	18.083	25.534	1.00	68.42
ATOM	19144	O	ALA	2859	55.790	17.560	24.864	1.00	68.24
ATOM	19145	N	GLY	2860	57.613	18.876	25.014	1.00	67.04
ATOM	19146	CA	GLY	2860	57.628	19.171	23.595	1.00	65.45
ATOM	19147	C	GLY	2860	57.836	17.929	22.753	1.00	64.41
ATOM	19148	O	GLY	2860	57.153	17.734	21.748	1.00	64.15
ATOM	19149	N	ASP	2861	58.782	17.087	23.160	1.00	63.48
ATOM	19150	CA	ASP	2861	59.070	15.856	22.433	1.00	62.53
ATOM	19151	CB	ASP	2861	60.439	15.302	22.831	1.00	62.67
ATOM	19152	CG	ASP	2861	61.562	16.288	22.579	1.00	63.21
ATOM	19153	OD1	ASP	2861	61.615	16.865	21.471	1.00	62.95
ATOM	19154	OD2	ASP	2861	62.397	16.478	23.487	1.00	63.46
ATOM	19155	C	ASP	2861	57.999	14.811	22.716	1.00	61.69
ATOM	19156	O	ASP	2861	57.830	13.860	21.953	1.00	61.58
ATOM	19157	N	GLN	2862	57.285	14.992	23.822	1.00	60.47
ATOM	19158	CA	GLN	2862	56.221	14.073	24.207	1.00	59.44
ATOM	19159	CB	GLN	2862	55.729	14.389	25.620	1.00	59.54
ATOM	19160	CG	GLN	2862	54.527	13.569	26.050	1.00	59.67
ATOM	19161	CD	GLN	2862	54.800	12.080	26.016	1.00	59.97
ATOM	19162	OE1	GLN	2862	55.653	11.578	26.748	1.00	60.86
ATOM	19163	NE2	GLN	2862	54.078	11.366	25.160	1.00	59.63
ATOM	19164	C	GLN	2862	55.061	14.194	23.227	1.00	58.25
ATOM	19165	O	GLN	2862	54.494	13.193	22.797	1.00	58.14
ATOM	19166	N	LEU	2863	54.712	15.429	22.884	1.00	57.06
ATOM	19167	CA	LEU	2863	53.625	15.679	21.951	1.00	56.74
ATOM	19168	CB	LEU	2863	53.350	17.181	21.844	1.00	57.27
ATOM	19169	CG	LEU	2863	52.854	17.884	23.111	1.00	57.78
ATOM	19170	CD1	LEU	2863	52.796	19.385	22.873	1.00	58.08
ATOM	19171	CD2	LEU	2863	51.485	17.347	23.497	1.00	57.79
ATOM	19172	C	LEU	2863	53.988	15.128	20.580	1.00	56.01
ATOM	19173	O	LEU	2863	53.163	14.504	19.911	1.00	56.51
ATOM	19174	N	LEU	2864	55.230	15.358	20.168	1.00	54.58
ATOM	19175	CA	LEU	2864	55.700	14.882	18.873	1.00	53.21
ATOM	19176	CB	LEU	2864	57.106	15.427	18.596	1.00	53.69
ATOM	19177	CG	LEU	2864	57.598	15.447	17.145	1.00	54.10
ATOM	19178	CD1	LEU	2864	58.822	16.342	17.047	1.00	54.57
ATOM	19179	CD2	LEU	2864	57.911	14.043	16.669	1.00	53.90
ATOM	19180	C	LEU	2864	55.707	13.355	18.879	1.00	51.65
ATOM	19181	O	LEU	2864	55.486	12.717	17.847	1.00	50.82
ATOM	19182	N	SER	2865	55.954	12.781	20.053	1.00	49.04
ATOM	19183	CA	SER	2865	55.975	11.332	20.209	1.00	47.06
ATOM	19184	CB	SER	2865	56.542	10.954	21.581	1.00	46.62
ATOM	19185	OG	SER	2865	56.593	9.548	21.749	1.00	44.01
ATOM	19186	C	SER	2865	54.561	10.774	20.062	1.00	45.80
ATOM	19187	O	SER	2865	54.346	9.778	19.367	1.00	44.53
ATOM	19188	N	ASP	2866	53.600	11.417	20.720	1.00	44.91
ATOM	19189	CA	ASP	2866	52.210	10.976	20.645	1.00	44.58
ATOM	19190	CB	ASP	2866	51.329	11.752	21.631	1.00	45.13
ATOM	19191	CG	ASP	2866	51.719	11.514	23.080	1.00	45.03
ATOM	19192	OD1	ASP	2866	51.989	10.352	23.452	1.00	44.80
ATOM	19193	OD2	ASP	2866	51.740	12.489	23.855	1.00	46.12
ATOM	19194	C	ASP	2866	51.687	11.180	19.229	1.00	44.24
ATOM	19195	O	ASP	2866	50.975	10.329	18.694	1.00	45.01
ATOM	19196	N	ALA	2867	52.043	12.310	18.626	1.00	42.65
ATOM	19197	CA	ALA	2867	51.612	12.610	17.267	1.00	41.30
ATOM	19198	CB	ALA	2867	52.178	13.952	16.820	1.00	40.89
ATOM	19199	C	ALA	2867	52.077	11.498	16.328	1.00	40.67
ATOM	19200	O	ALA	2867	51.325	11.051	15.461	1.00	38.64
ATOM	19201	N	LEU	2868	53.318	11.052	16.506	1.00	39.50

ATOM	19202	CA	LEU	2868	53.862	9.982	15.674	1.00	39.13
ATOM	19203	CB	LEU	2868	55.375	9.852	15.881	1.00	39.80
ATOM	19204	CG	LEU	2868	56.263	10.908	15.223	1.00	39.60
ATOM	19205	CD1	LEU	2868	57.701	10.724	15.682	1.00	40.79
ATOM	19206	CD2	LEU	2868	56.167	10.790	13.709	1.00	40.12
ATOM	19207	C	LEU	2868	53.189	8.655	16.003	1.00	38.24
ATOM	19208	O	LEU	2868	52.981	7.817	15.124	1.00	37.72
ATOM	19209	N	ALA	2869	52.853	8.470	17.275	1.00	36.58
ATOM	19210	CA	ALA	2869	52.197	7.246	17.723	1.00	36.98
ATOM	19211	CB	ALA	2869	52.156	7.206	19.245	1.00	36.32
ATOM	19212	C	ALA	2869	50.782	7.165	17.157	1.00	36.13
ATOM	19213	O	ALA	2869	50.346	6.109	16.699	1.00	37.03
ATOM	19214	N	LEU	2870	50.070	8.287	17.195	1.00	35.62
ATOM	19215	CA	LEU	2870	48.705	8.349	16.684	1.00	35.07
ATOM	19216	CB	LEU	2870	48.091	9.719	16.990	1.00	35.82
ATOM	19217	CG	LEU	2870	47.905	10.070	18.471	1.00	36.77
ATOM	19218	CD1	LEU	2870	47.517	11.530	18.606	1.00	37.65
ATOM	19219	CD2	LEU	2870	46.842	9.171	19.087	1.00	37.97
ATOM	19220	C	LEU	2870	48.703	8.099	15.180	1.00	33.74
ATOM	19221	O	LEU	2870	47.826	7.413	14.655	1.00	32.74
ATOM	19222	N	GLU	2871	49.692	8.656	14.489	1.00	33.03
ATOM	19223	CA	GLU	2871	49.807	8.480	13.047	1.00	31.65
ATOM	19224	CB	GLU	2871	50.952	9.338	12.501	1.00	32.99
ATOM	19225	CG	GLU	2871	51.193	9.165	11.011	1.00	33.67
ATOM	19226	CD	GLU	2871	52.375	9.974	10.518	1.00	34.78
ATOM	19227	OE1	GLU	2871	53.477	9.806	11.085	1.00	33.73
ATOM	19228	OE2	GLU	2871	52.205	10.766	9.567	1.00	35.40
ATOM	19229	C	GLU	2871	50.061	7.015	12.715	1.00	31.63
ATOM	19230	O	GLU	2871	49.438	6.460	11.811	1.00	31.20
ATOM	19231	N	ALA	2872	50.975	6.391	13.451	1.00	30.57
ATOM	19232	CA	ALA	2872	51.306	4.988	13.221	1.00	30.98
ATOM	19233	CB	ALA	2872	52.506	4.588	14.076	1.00	30.03
ATOM	19234	C	ALA	2872	50.110	4.095	13.544	1.00	29.80
ATOM	19235	O	ALA	2872	49.949	3.020	12.965	1.00	28.80
ATOM	19236	N	ALA	2873	49.274	4.561	14.468	1.00	29.24
ATOM	19237	CA	ALA	2873	48.086	3.832	14.898	1.00	27.99
ATOM	19238	CB	ALA	2873	47.538	4.449	16.185	1.00	27.72
ATOM	19239	C	ALA	2873	47.010	3.825	13.818	1.00	28.11
ATOM	19240	O	ALA	2873	46.158	2.935	13.782	1.00	27.45
ATOM	19241	N	GLY	2874	47.044	4.821	12.939	1.00	26.89
ATOM	19242	CA	GLY	2874	46.059	4.883	11.874	1.00	27.96
ATOM	19243	C	GLY	2874	45.396	6.235	11.685	1.00	27.38
ATOM	19244	O	GLY	2874	44.639	6.428	10.736	1.00	27.45
ATOM	19245	N	ALA	2875	45.671	7.175	12.583	1.00	28.20
ATOM	19246	CA	ALA	2875	45.085	8.502	12.481	1.00	28.33
ATOM	19247	CB	ALA	2875	45.556	9.366	13.640	1.00	29.66
ATOM	19248	C	ALA	2875	45.462	9.154	11.147	1.00	30.07
ATOM	19249	O	ALA	2875	46.634	9.176	10.768	1.00	30.07
ATOM	19250	N	GLN	2876	44.466	9.679	10.436	1.00	29.85
ATOM	19251	CA	GLN	2876	44.704	10.324	9.146	1.00	31.07
ATOM	19252	CB	GLN	2876	43.634	9.895	8.141	1.00	32.52
ATOM	19253	CG	GLN	2876	43.582	8.393	7.917	1.00	33.27
ATOM	19254	CD	GLN	2876	42.514	7.983	6.922	1.00	35.64
ATOM	19255	OE1	GLN	2876	42.635	8.238	5.720	1.00	37.92
ATOM	19256	NE2	GLN	2876	41.459	7.346	7.417	1.00	34.07
ATOM	19257	C	GLN	2876	44.716	11.842	9.270	1.00	32.63
ATOM	19258	O	GLN	2876	44.871	12.556	8.278	1.00	32.11
ATOM	19259	N	LEU	2877	44.560	12.321	10.500	1.00	34.15
ATOM	19260	CA	LEU	2877	44.547	13.750	10.794	1.00	35.91
ATOM	19261	CB	LEU	2877	43.154	14.329	10.547	1.00	36.23
ATOM	19262	CG	LEU	2877	42.960	15.163	9.283	1.00	37.74
ATOM	19263	CD1	LEU	2877	41.505	15.594	9.176	1.00	37.26
ATOM	19264	CD2	LEU	2877	43.877	16.373	9.332	1.00	37.89
ATOM	19265	C	LEU	2877	44.933	13.990	12.244	1.00	36.30
ATOM	19266	O	LEU	2877	44.750	13.117	13.090	1.00	36.32
ATOM	19267	N	LEU	2878	45.465	15.178	12.522	1.00	37.48
ATOM	19268	CA	LEU	2878	45.875	15.555	13.873	1.00	38.35
ATOM	19269	CB	LEU	2878	47.379	15.346	14.057	1.00	37.59
ATOM	19270	CG	LEU	2878	47.944	15.762	15.418	1.00	38.15
ATOM	19271	CD1	LEU	2878	47.332	14.906	16.517	1.00	37.53
ATOM	19272	CD2	LEU	2878	49.458	15.611	15.411	1.00	38.68
ATOM	19273	C	LEU	2878	45.535	17.017	14.151	1.00	39.83
ATOM	19274	O	LEU	2878	45.609	17.861	13.257	1.00	39.08
ATOM	19275	N	VAL	2879	45.162	17.309	15.393	1.00	41.38
ATOM	19276	CA	VAL	2879	44.820	18.670	15.793	1.00	42.90
ATOM	19277	CB	VAL	2879	43.342	18.778	16.231	1.00	42.29
ATOM	19278	CG1	VAL	2879	43.035	20.196	16.685	1.00	42.71

ATOM	19279	CG2	VAL	2879	42.433	18.384	15.086	1.00	41.99
ATOM	19280	C	VAL	2879	45.700	19.133	16.949	1.00	44.01
ATOM	19281	O	VAL	2879	45.791	18.468	17.983	1.00	43.86
ATOM	19282	N	LEU	2880	46.352	20.276	16.760	1.00	45.45
ATOM	19283	CA	LEU	2880	47.221	20.852	17.781	1.00	47.07
ATOM	19284	CB	LEU	2880	48.564	21.261	17.170	1.00	47.30
ATOM	19285	CG	LEU	2880	49.446	20.136	16.632	1.00	47.79
ATOM	19286	CD1	LEU	2880	50.688	20.726	15.975	1.00	48.71
ATOM	19287	CD2	LEU	2880	49.832	19.201	17.770	1.00	47.63
ATOM	19288	C	LEU	2880	46.539	22.073	18.381	1.00	48.19
ATOM	19289	O	LEU	2880	46.213	23.022	17.667	1.00	48.54
ATOM	19290	N	GLU	2881	46.326	22.047	19.692	1.00	49.26
ATOM	19291	CA	GLU	2881	45.668	23.154	20.377	1.00	51.27
ATOM	19292	CB	GLU	2881	44.478	22.635	21.186	1.00	51.11
ATOM	19293	CG	GLU	2881	43.547	23.724	21.684	1.00	52.03
ATOM	19294	CD	GLU	2881	42.497	23.196	22.631	1.00	51.94
ATOM	19295	OE1	GLU	2881	41.810	22.220	22.271	1.00	51.97
ATOM	19296	OE2	GLU	2881	42.358	23.756	23.740	1.00	53.44
ATOM	19297	C	GLU	2881	46.629	23.894	21.304	1.00	52.45
ATOM	19298	O	GLU	2881	47.177	23.308	22.239	1.00	51.90
ATOM	19299	N	CYS	2882	46.818	25.185	21.038	1.00	53.90
ATOM	19300	CA	CYS	2882	47.705	26.033	21.832	1.00	55.11
ATOM	19301	CB	CYS	2882	47.038	26.398	23.159	1.00	55.59
ATOM	19302	SG	CYS	2882	45.596	27.473	22.965	1.00	57.79
ATOM	19303	C	CYS	2882	49.054	25.381	22.095	1.00	55.25
ATOM	19304	O	CYS	2882	49.260	24.729	23.119	1.00	55.61
ATOM	19305	N	VAL	2883	49.974	25.570	21.158	1.00	55.88
ATOM	19306	CA	VAL	2883	51.312	25.006	21.264	1.00	56.54
ATOM	19307	CB	VAL	2883	51.364	23.606	20.601	1.00	56.77
ATOM	19308	CG1	VAL	2883	50.923	23.700	19.150	1.00	57.14
ATOM	19309	CG2	VAL	2883	52.764	23.029	20.694	1.00	56.92
ATOM	19310	C	VAL	2883	52.291	25.949	20.568	1.00	56.70
ATOM	19311	O	VAL	2883	51.988	26.489	19.502	1.00	56.49
ATOM	19312	N	PRO	2884	53.476	26.168	21.167	1.00	56.87
ATOM	19313	CD	PRO	2884	54.038	25.483	22.342	1.00	56.82
ATOM	19314	CA	PRO	2884	54.473	27.060	20.565	1.00	56.93
ATOM	19315	CB	PRO	2884	55.699	26.863	21.459	1.00	56.72
ATOM	19316	CG	PRO	2884	55.503	25.482	22.019	1.00	57.13
ATOM	19317	C	PRO	2884	54.747	26.718	19.105	1.00	57.27
ATOM	19318	O	PRO	2884	54.999	25.562	18.766	1.00	57.23
ATOM	19319	N	VAL	2885	54.689	27.735	18.250	1.00	56.98
ATOM	19320	CA	VAL	2885	54.908	27.564	16.818	1.00	57.68
ATOM	19321	CB	VAL	2885	55.176	28.918	16.129	1.00	57.41
ATOM	19322	CG1	VAL	2885	55.141	28.747	14.620	1.00	57.11
ATOM	19323	CG2	VAL	2885	54.150	29.942	16.578	1.00	57.26
ATOM	19324	C	VAL	2885	56.079	26.632	16.519	1.00	58.32
ATOM	19325	O	VAL	2885	56.046	25.867	15.553	1.00	58.54
ATOM	19326	N	GLU	2886	57.108	26.701	17.358	1.00	58.72
ATOM	19327	CA	GLU	2886	58.300	25.876	17.194	1.00	58.51
ATOM	19328	CB	GLU	2886	59.282	26.138	18.341	1.00	59.10
ATOM	19329	CG	GLU	2886	59.379	27.602	18.763	1.00	59.54
ATOM	19330	CD	GLU	2886	59.529	28.549	17.586	1.00	59.84
ATOM	19331	OE1	GLU	2886	60.465	28.357	16.779	1.00	60.96
ATOM	19332	OE2	GLU	2886	58.711	29.488	17.473	1.00	59.20
ATOM	19333	C	GLU	2886	57.937	24.394	17.164	1.00	58.20
ATOM	19334	O	GLU	2886	58.373	23.650	16.283	1.00	57.63
ATOM	19335	N	LEU	2887	57.131	23.975	18.134	1.00	57.62
ATOM	19336	CA	LEU	2887	56.706	22.586	18.235	1.00	57.41
ATOM	19337	CB	LEU	2887	55.937	22.371	19.540	1.00	56.08
ATOM	19338	CG	LEU	2887	56.331	21.145	20.368	1.00	55.97
ATOM	19339	CD1	LEU	2887	55.545	21.140	21.668	1.00	55.92
ATOM	19340	CD2	LEU	2887	56.075	19.875	19.578	1.00	55.54
ATOM	19341	C	LEU	2887	55.833	22.193	17.046	1.00	57.47
ATOM	19342	O	LEU	2887	55.948	21.086	16.519	1.00	57.79
ATOM	19343	N	ALA	2888	54.962	23.106	16.628	1.00	57.65
ATOM	19344	CA	ALA	2888	54.071	22.861	15.500	1.00	57.47
ATOM	19345	CB	ALA	2888	53.138	24.051	15.306	1.00	57.84
ATOM	19346	C	ALA	2888	54.859	22.604	14.219	1.00	57.89
ATOM	19347	O	ALA	2888	54.491	21.751	13.411	1.00	57.53
ATOM	19348	N	LYS	2889	55.944	23.352	14.040	1.00	57.61
ATOM	19349	CA	LYS	2889	56.790	23.211	12.862	1.00	57.71
ATOM	19350	CB	LYS	2889	57.952	24.205	12.929	1.00	58.61
ATOM	19351	CG	LYS	2889	57.518	25.662	12.982	1.00	60.67
ATOM	19352	CD	LYS	2889	58.694	26.590	13.263	1.00	62.37
ATOM	19353	CE	LYS	2889	58.243	28.043	13.347	1.00	62.84
ATOM	19354	NZ	LYS	2889	59.353	28.959	13.729	1.00	63.21
ATOM	19355	C	LYS	2889	57.337	21.794	12.763	1.00	57.10

ATOM	19356	O	LYS	2889	57.302	21.180	11.696	1.00	57.17
ATOM	19357	N	ARG	2890	57.840	21.281	13.881	1.00	56.24
ATOM	19358	CA	ARG	2890	58.401	19.936	13.923	1.00	55.63
ATOM	19359	CB	ARG	2890	58.973	19.639	15.311	1.00	56.65
ATOM	19360	CG	ARG	2890	60.157	20.501	15.697	1.00	58.26
ATOM	19361	CD	ARG	2890	60.844	19.945	16.934	1.00	60.00
ATOM	19362	NE	ARG	2890	59.947	19.894	18.084	1.00	61.53
ATOM	19363	CZ	ARG	2890	60.260	19.344	19.254	1.00	62.29
ATOM	19364	NH1	ARG	2890	61.451	18.791	19.433	1.00	62.17
ATOM	19365	NH2	ARG	2890	59.381	19.349	20.246	1.00	63.05
ATOM	19366	C	ARG	2890	57.364	18.880	13.573	1.00	54.19
ATOM	19367	O	ARG	2890	57.502	18.162	12.584	1.00	53.84
ATOM	19368	N	ILE	2891	56.329	18.790	14.401	1.00	52.97
ATOM	19369	CA	ILE	2891	55.256	17.826	14.202	1.00	51.09
ATOM	19370	CB	ILE	2891	54.099	18.088	15.187	1.00	51.37
ATOM	19371	CG2	ILE	2891	52.970	17.095	14.947	1.00	50.95
ATOM	19372	CG1	ILE	2891	54.613	17.981	16.626	1.00	50.98
ATOM	19373	CD1	ILE	2891	53.598	18.382	17.676	1.00	50.45
ATOM	19374	C	ILE	2891	54.712	17.874	12.777	1.00	50.48
ATOM	19375	O	ILE	2891	54.621	16.845	12.108	1.00	50.45
ATOM	19376	N	THR	2892	54.358	19.069	12.316	1.00	49.45
ATOM	19377	CA	THR	2892	53.816	19.230	10.973	1.00	49.23
ATOM	19378	CB	THR	2892	53.557	20.713	10.637	1.00	48.82
ATOM	19379	OG1	THR	2892	52.662	21.275	11.603	1.00	49.13
ATOM	19380	CG2	THR	2892	52.937	20.843	9.249	1.00	48.85
ATOM	19381	C	THR	2892	54.740	18.649	9.908	1.00	49.30
ATOM	19382	O	THR	2892	54.280	18.005	8.965	1.00	48.82
ATOM	19383	N	GLU	2893	56.041	18.878	10.056	1.00	49.78
ATOM	19384	CA	GLU	2893	57.007	18.369	9.088	1.00	50.32
ATOM	19385	CB	GLU	2893	58.245	19.268	9.043	1.00	51.93
ATOM	19386	CG	GLU	2893	57.979	20.650	8.460	1.00	54.14
ATOM	19387	CD	GLU	2893	59.255	21.412	8.163	1.00	55.53
ATOM	19388	OE1	GLU	2893	60.036	21.666	9.106	1.00	55.46
ATOM	19389	OE2	GLU	2893	59.477	21.757	6.982	1.00	56.24
ATOM	19390	C	GLU	2893	57.423	16.933	9.381	1.00	49.42
ATOM	19391	O	GLU	2893	57.953	16.243	8.509	1.00	49.42
ATOM	19392	N	ALA	2894	57.174	16.487	10.609	1.00	48.11
ATOM	19393	CA	ALA	2894	57.518	15.131	11.021	1.00	46.74
ATOM	19394	CB	ALA	2894	57.718	15.079	12.531	1.00	46.75
ATOM	19395	C	ALA	2894	56.438	14.135	10.604	1.00	45.44
ATOM	19396	O	ALA	2894	56.721	12.959	10.379	1.00	45.28
ATOM	19397	N	LEU	2895	55.200	14.608	10.500	1.00	44.09
ATOM	19398	CA	LEU	2895	54.097	13.740	10.112	1.00	42.66
ATOM	19399	CB	LEU	2895	52.845	14.067	10.932	1.00	43.61
ATOM	19400	CG	LEU	2895	52.966	13.940	12.450	1.00	43.86
ATOM	19401	CD1	LEU	2895	51.651	14.323	13.105	1.00	44.30
ATOM	19402	CD2	LEU	2895	53.350	12.520	12.814	1.00	45.06
ATOM	19403	C	LEU	2895	53.777	13.884	8.631	1.00	41.50
ATOM	19404	O	LEU	2895	53.887	14.973	8.067	1.00	41.74
ATOM	19405	N	ALA	2896	53.384	12.776	8.009	1.00	39.31
ATOM	19406	CA	ALA	2896	53.020	12.769	6.597	1.00	37.81
ATOM	19407	CB	ALA	2896	53.230	11.380	6.003	1.00	37.19
ATOM	19408	C	ALA	2896	51.558	13.178	6.468	1.00	37.41
ATOM	19409	O	ALA	2896	51.144	13.749	5.458	1.00	35.35
ATOM	19410	N	ILE	2897	50.776	12.874	7.499	1.00	37.72
ATOM	19411	CA	ILE	2897	49.359	13.222	7.510	1.00	37.82
ATOM	19412	CB	ILE	2897	48.589	12.404	8.572	1.00	38.19
ATOM	19413	CG2	ILE	2897	48.562	10.938	8.182	1.00	35.52
ATOM	19414	CG1	ILE	2897	49.237	12.602	9.947	1.00	36.77
ATOM	19415	CD1	ILE	2897	48.490	11.937	11.083	1.00	38.83
ATOM	19416	C	ILE	2897	49.202	14.706	7.825	1.00	38.40
ATOM	19417	O	ILE	2897	49.987	15.274	8.585	1.00	37.92
ATOM	19418	N	PRO	2898	48.180	15.354	7.247	1.00	38.51
ATOM	19419	CD	PRO	2898	47.116	14.796	6.397	1.00	38.81
ATOM	19420	CA	PRO	2898	47.953	16.781	7.492	1.00	39.39
ATOM	19421	CB	PRO	2898	46.729	17.090	6.629	1.00	39.31
ATOM	19422	CG	PRO	2898	46.001	15.787	6.601	1.00	40.01
ATOM	19423	C	PRO	2898	47.730	17.097	8.968	1.00	40.59
ATOM	19424	O	PRO	2898	46.998	16.391	9.665	1.00	40.56
ATOM	19425	N	VAL	2899	48.375	18.158	9.441	1.00	40.40
ATOM	19426	CA	VAL	2899	48.252	18.569	10.832	1.00	40.89
ATOM	19427	CB	VAL	2899	49.641	18.739	11.484	1.00	41.08
ATOM	19428	CG1	VAL	2899	49.487	19.099	12.952	1.00	40.58
ATOM	19429	CG2	VAL	2899	50.442	17.457	11.334	1.00	41.04
ATOM	19430	C	VAL	2899	47.489	19.882	10.942	1.00	41.61
ATOM	19431	O	VAL	2899	48.002	20.946	10.594	1.00	42.66
ATOM	19432	N	ILE	2900	46.254	19.797	11.424	1.00	41.85

ATOM	19433	CA	ILE	2900	45.409	20.973	11.588	1.00	40.80
ATOM	19434	CB	ILE	2900	43.918	20.589	11.510	1.00	40.42
ATOM	19435	CG2	ILE	2900	43.046	21.818	11.739	1.00	40.48
ATOM	19436	CG1	ILE	2900	43.627	19.954	10.146	1.00	40.12
ATOM	19437	CD1	ILE	2900	42.223	19.401	10.000	1.00	38.79
ATOM	19438	C	ILE	2900	45.701	21.599	12.943	1.00	40.37
ATOM	19439	O	ILE	2900	45.760	20.902	13.955	1.00	40.86
ATOM	19440	N	GLY	2901	45.892	22.913	12.964	1.00	40.33
ATOM	19441	CA	GLY	2901	46.189	23.576	14.219	1.00	39.83
ATOM	19442	C	GLY	2901	45.312	24.771	14.534	1.00	39.82
ATOM	19443	O	GLY	2901	44.743	25.400	13.644	1.00	39.28
ATOM	19444	N	ILE	2902	45.198	25.071	15.822	1.00	40.24
ATOM	19445	CA	ILE	2902	44.414	26.203	16.287	1.00	41.59
ATOM	19446	CB	ILE	2902	43.043	25.758	16.859	1.00	41.56
ATOM	19447	CG2	ILE	2902	43.232	24.634	17.871	1.00	39.96
ATOM	19448	CG1	ILE	2902	42.333	26.957	17.490	1.00	42.23
ATOM	19449	CD1	ILE	2902	40.886	26.696	17.857	1.00	42.44
ATOM	19450	C	ILE	2902	45.225	26.913	17.364	1.00	42.95
ATOM	19451	O	ILE	2902	45.405	26.397	18.468	1.00	41.71
ATOM	19452	N	GLY	2903	45.729	28.096	17.027	1.00	44.58
ATOM	19453	CA	GLY	2903	46.535	28.845	17.972	1.00	45.63
ATOM	19454	C	GLY	2903	47.918	28.234	18.068	1.00	46.17
ATOM	19455	O	GLY	2903	48.531	28.218	19.136	1.00	46.79
ATOM	19456	N	ALA	2904	48.407	27.722	16.942	1.00	46.61
ATOM	19457	CA	ALA	2904	49.725	27.102	16.887	1.00	46.93
ATOM	19458	CB	ALA	2904	49.584	25.594	16.723	1.00	46.40
ATOM	19459	C	ALA	2904	50.565	27.674	15.749	1.00	46.66
ATOM	19460	O	ALA	2904	51.652	27.174	15.461	1.00	46.67
ATOM	19461	N	GLY	2905	50.056	28.718	15.100	1.00	47.11
ATOM	19462	CA	GLY	2905	50.786	29.331	14.004	1.00	47.45
ATOM	19463	C	GLY	2905	50.290	28.905	12.634	1.00	48.01
ATOM	19464	O	GLY	2905	49.434	28.027	12.517	1.00	48.29
ATOM	19465	N	ASN	2906	50.832	29.528	11.591	1.00	47.47
ATOM	19466	CA	ASN	2906	50.439	29.213	10.221	1.00	47.27
ATOM	19467	CB	ASN	2906	50.423	30.488	9.373	1.00	46.79
ATOM	19468	CG	ASN	2906	51.771	31.187	9.346	1.00	46.59
ATOM	19469	OD1	ASN	2906	51.940	32.206	8.674	1.00	47.15
ATOM	19470	ND2	ASN	2906	52.736	30.644	10.079	1.00	45.79
ATOM	19471	C	ASN	2906	51.374	28.190	9.585	1.00	47.11
ATOM	19472	O	ASN	2906	51.368	28.002	8.366	1.00	46.64
ATOM	19473	N	VAL	2907	52.173	27.530	10.418	1.00	47.09
ATOM	19474	CA	VAL	2907	53.118	26.526	9.941	1.00	47.56
ATOM	19475	CB	VAL	2907	54.234	26.269	10.980	1.00	48.05
ATOM	19476	CG1	VAL	2907	55.286	25.336	10.394	1.00	49.38
ATOM	19477	CG2	VAL	2907	54.866	27.584	11.404	1.00	48.66
ATOM	19478	C	VAL	2907	52.415	25.204	9.645	1.00	47.40
ATOM	19479	O	VAL	2907	52.875	24.419	8.816	1.00	46.82
ATOM	19480	N	THR	2908	51.299	24.965	10.326	1.00	46.84
ATOM	19481	CA	THR	2908	50.538	23.737	10.134	1.00	46.83
ATOM	19482	CB	THR	2908	49.387	23.644	11.145	1.00	46.34
ATOM	19483	OG1	THR	2908	48.608	24.845	11.091	1.00	47.58
ATOM	19484	CG2	THR	2908	49.932	23.460	12.550	1.00	45.22
ATOM	19485	C	THR	2908	49.966	23.646	8.722	1.00	47.30
ATOM	19486	O	THR	2908	49.862	24.649	8.013	1.00	47.83
ATOM	19487	N	ASP	2909	49.598	22.436	8.318	1.00	46.81
ATOM	19488	CA	ASP	2909	49.047	22.204	6.989	1.00	47.02
ATOM	19489	CB	ASP	2909	48.974	20.700	6.718	1.00	47.68
ATOM	19490	CG	ASP	2909	50.313	20.009	6.906	1.00	48.92
ATOM	19491	OD1	ASP	2909	51.248	20.299	6.127	1.00	49.06
ATOM	19492	OD2	ASP	2909	50.432	19.182	7.836	1.00	47.98
ATOM	19493	C	ASP	2909	47.666	22.831	6.832	1.00	47.23
ATOM	19494	O	ASP	2909	47.219	23.110	5.717	1.00	46.70
ATOM	19495	N	GLY	2910	46.995	23.057	7.956	1.00	46.85
ATOM	19496	CA	GLY	2910	45.672	23.650	7.914	1.00	46.10
ATOM	19497	C	GLY	2910	45.335	24.437	9.163	1.00	45.53
ATOM	19498	O	GLY	2910	46.113	24.473	10.115	1.00	44.71
ATOM	19499	N	GLN	2911	44.166	25.067	9.157	1.00	45.89
ATOM	19500	CA	GLN	2911	43.712	25.863	10.292	1.00	46.51
ATOM	19501	CB	GLN	2911	43.873	27.357	9.990	1.00	46.39
ATOM	19502	CG	GLN	2911	45.315	27.843	9.878	1.00	44.82
ATOM	19503	CD	GLN	2911	46.100	27.649	11.162	1.00	44.00
ATOM	19504	OE1	GLN	2911	45.634	27.997	12.246	1.00	43.65
ATOM	19505	NE2	GLN	2911	47.305	27.103	11.043	1.00	44.12
ATOM	19506	C	GLN	2911	42.250	25.577	10.619	1.00	47.63
ATOM	19507	O	GLN	2911	41.487	25.114	9.771	1.00	46.88
ATOM	19508	N	ILE	2912	41.867	25.853	11.860	1.00	48.52
ATOM	19509	CA	ILE	2912	40.492	25.652	12.290	1.00	50.21

ATOM	19510	CB	ILE	2912	40.320	24.298	13.023	1.00	50.95
ATOM	19511	CG2	ILE	2912	41.195	24.257	14.270	1.00	51.75
ATOM	19512	CG1	ILE	2912	38.849	24.088	13.376	1.00	51.34
ATOM	19513	CD1	ILE	2912	38.484	22.641	13.645	1.00	52.84
ATOM	19514	C	ILE	2912	40.093	26.806	13.205	1.00	50.85
ATOM	19515	O	ILE	2912	40.870	27.222	14.066	1.00	51.15
ATOM	19516	N	LEU	2913	38.889	27.334	13.005	1.00	51.43
ATOM	19517	CA	LEU	2913	38.417	28.456	13.808	1.00	51.62
ATOM	19518	CB	LEU	2913	38.566	29.760	13.012	1.00	52.42
ATOM	19519	CG	LEU	2913	39.031	31.024	13.747	1.00	53.65
ATOM	19520	CD1	LEU	2913	39.235	32.140	12.739	1.00	53.91
ATOM	19521	CD2	LEU	2913	38.016	31.436	14.802	1.00	54.69
ATOM	19522	C	LEU	2913	36.964	28.277	14.240	1.00	50.63
ATOM	19523	O	LEU	2913	36.170	27.629	13.553	1.00	50.30
ATOM	19524	N	VAL	2914	36.627	28.853	15.389	1.00	49.32
ATOM	19525	CA	VAL	2914	35.274	28.778	15.922	1.00	47.68
ATOM	19526	CB	VAL	2914	35.275	28.908	17.455	1.00	48.06
ATOM	19527	CG1	VAL	2914	33.877	28.658	18.003	1.00	49.28
ATOM	19528	CG2	VAL	2914	36.268	27.930	18.050	1.00	47.75
ATOM	19529	C	VAL	2914	34.463	29.920	15.324	1.00	46.26
ATOM	19530	O	VAL	2914	34.721	31.092	15.601	1.00	45.66
ATOM	19531	N	MET	2915	33.486	29.570	14.496	1.00	43.97
ATOM	19532	CA	MET	2915	32.649	30.563	13.839	1.00	42.92
ATOM	19533	CB	MET	2915	31.500	29.873	13.106	1.00	40.64
ATOM	19534	CG	MET	2915	30.616	29.023	14.000	1.00	38.03
ATOM	19535	SD	MET	2915	28.938	28.996	13.368	1.00	33.08
ATOM	19536	CE	MET	2915	28.260	30.449	14.185	1.00	34.77
ATOM	19537	C	MET	2915	32.087	31.596	14.813	1.00	42.94
ATOM	19538	O	MET	2915	31.937	32.766	14.468	1.00	43.50
ATOM	19539	N	HIS	2916	31.778	31.156	16.028	1.00	43.84
ATOM	19540	CA	HIS	2916	31.228	32.041	17.047	1.00	43.99
ATOM	19541	CB	HIS	2916	30.839	31.221	18.279	1.00	43.48
ATOM	19542	CG	HIS	2916	29.606	30.396	18.080	1.00	42.85
ATOM	19543	CD2	HIS	2916	29.446	29.097	17.733	1.00	42.66
ATOM	19544	ND1	HIS	2916	28.336	30.925	18.176	1.00	42.76
ATOM	19545	CE1	HIS	2916	27.448	29.988	17.897	1.00	42.12
ATOM	19546	NE2	HIS	2916	28.095	28.870	17.624	1.00	42.80
ATOM	19547	C	HIS	2916	32.192	33.165	17.424	1.00	45.02
ATOM	19548	O	HIS	2916	31.772	34.232	17.871	1.00	43.97
ATOM	19549	N	ASP	2917	33.485	32.924	17.238	1.00	46.22
ATOM	19550	CA	ASP	2917	34.493	33.931	17.539	1.00	47.60
ATOM	19551	CB	ASP	2917	35.702	33.296	18.227	1.00	48.54
ATOM	19552	CG	ASP	2917	35.463	33.045	19.699	1.00	49.88
ATOM	19553	OD1	ASP	2917	35.083	34.002	20.404	1.00	51.64
ATOM	19554	OD2	ASP	2917	35.658	31.901	20.156	1.00	51.53
ATOM	19555	C	ASP	2917	34.938	34.638	16.266	1.00	47.64
ATOM	19556	O	ASP	2917	35.581	35.685	16.317	1.00	49.23
ATOM	19557	N	ALA	2918	34.587	34.060	15.123	1.00	47.15
ATOM	19558	CA	ALA	2918	34.944	34.631	13.833	1.00	46.36
ATOM	19559	CB	ALA	2918	34.938	33.551	12.764	1.00	45.96
ATOM	19560	C	ALA	2918	33.965	35.736	13.463	1.00	46.60
ATOM	19561	O	ALA	2918	34.275	36.607	12.651	1.00	45.86
ATOM	19562	N	PHE	2919	32.780	35.696	14.063	1.00	45.95
ATOM	19563	CA	PHE	2919	31.762	36.699	13.794	1.00	46.21
ATOM	19564	CB	PHE	2919	30.492	36.027	13.274	1.00	47.19
ATOM	19565	CG	PHE	2919	30.738	35.054	12.157	1.00	48.64
ATOM	19566	CD1	PHE	2919	31.476	35.427	11.038	1.00	49.33
ATOM	19567	CD2	PHE	2919	30.224	33.764	12.219	1.00	49.14
ATOM	19568	CE1	PHE	2919	31.698	34.527	9.996	1.00	49.77
ATOM	19569	CE2	PHE	2919	30.440	32.857	11.183	1.00	49.47
ATOM	19570	CZ	PHE	2919	31.177	33.239	10.070	1.00	49.73
ATOM	19571	C	PHE	2919	31.450	37.498	15.051	1.00	45.77
ATOM	19572	O	PHE	2919	30.435	38.193	15.122	1.00	45.54
ATOM	19573	N	GLY	2920	32.332	37.394	16.041	1.00	45.81
ATOM	19574	CA	GLY	2920	32.142	38.112	17.289	1.00	46.37
ATOM	19575	C	GLY	2920	30.782	37.867	17.909	1.00	46.48
ATOM	19576	O	GLY	2920	30.207	38.760	18.530	1.00	45.85
ATOM	19577	N	ILE	2921	30.268	36.653	17.741	1.00	46.20
ATOM	19578	CA	ILE	2921	28.965	36.290	18.286	1.00	47.25
ATOM	19579	CB	ILE	2921	28.450	34.974	17.665	1.00	46.36
ATOM	19580	CG2	ILE	2921	27.066	34.651	18.210	1.00	46.13
ATOM	19581	CG1	ILE	2921	28.410	35.101	16.140	1.00	46.06
ATOM	19582	CD1	ILE	2921	28.049	33.815	15.420	1.00	45.17
ATOM	19583	C	ILE	2921	29.040	36.120	19.801	1.00	48.32
ATOM	19584	O	ILE	2921	28.137	36.534	20.526	1.00	47.30
ATOM	19585	N	THR	2922	30.126	35.515	20.271	1.00	50.35
ATOM	19586	CA	THR	2922	30.316	35.285	21.696	1.00	53.99

ATOM	19587	CB	THR	2922	31.599	34.487	21.960	1.00	53.75
ATOM	19588	OG1	THR	2922	32.721	35.209	21.442	1.00	55.46
ATOM	19589	CG2	THR	2922	31.524	33.127	21.287	1.00	53.60
ATOM	19590	C	THR	2922	30.394	36.593	22.476	1.00	56.52
ATOM	19591	O	THR	2922	30.209	37.673	21.915	1.00	57.67
ATOM	19592	N	GLY	2923	30.672	36.483	23.772	1.00	58.60
ATOM	19593	CA	GLY	2923	30.768	37.657	24.622	1.00	61.66
ATOM	19594	C	GLY	2923	31.545	38.803	24.004	1.00	63.68
ATOM	19595	O	GLY	2923	30.961	39.699	23.394	1.00	64.36
ATOM	19596	N	GLY	2924	32.864	38.779	24.162	1.00	64.67
ATOM	19597	CA	GLY	2924	33.688	39.835	23.607	1.00	66.50
ATOM	19598	C	GLY	2924	35.161	39.619	23.880	1.00	67.68
ATOM	19599	O	GLY	2924	36.015	39.989	23.072	1.00	68.28
ATOM	19600	N	HIS	2925	35.461	39.018	25.026	1.00	68.21
ATOM	19601	CA	HIS	2925	36.839	38.748	25.410	1.00	68.98
ATOM	19602	CB	HIS	2925	36.922	38.531	26.924	1.00	70.40
ATOM	19603	CG	HIS	2925	36.513	39.726	27.730	1.00	71.99
ATOM	19604	CD2	HIS	2925	35.508	39.900	28.620	1.00	72.41
ATOM	19605	ND1	HIS	2925	37.178	40.932	27.662	1.00	72.60
ATOM	19606	CE1	HIS	2925	36.601	41.797	28.477	1.00	72.46
ATOM	19607	NE2	HIS	2925	35.585	41.197	29.070	1.00	72.60
ATOM	19608	C	HIS	2925	37.384	37.524	24.674	1.00	68.50
ATOM	19609	O	HIS	2925	37.745	36.524	25.294	1.00	68.44
ATOM	19610	N	ILE	2926	37.442	37.613	23.348	1.00	67.83
ATOM	19611	CA	ILE	2926	37.940	36.516	22.524	1.00	67.07
ATOM	19612	CB	ILE	2926	37.816	36.838	21.019	1.00	67.36
ATOM	19613	CG2	ILE	2926	36.353	37.011	20.641	1.00	67.76
ATOM	19614	CG1	ILE	2926	38.613	38.102	20.691	1.00	67.33
ATOM	19615	CD1	ILE	2926	38.682	38.416	19.212	1.00	67.17
ATOM	19616	C	ILE	2926	39.406	36.224	22.827	1.00	66.38
ATOM	19617	O	ILE	2926	40.136	37.094	23.300	1.00	66.76
ATOM	19618	N	PRO	2927	39.856	34.987	22.557	1.00	65.66
ATOM	19619	CD	PRO	2927	39.075	33.857	22.023	1.00	65.23
ATOM	19620	CA	PRO	2927	41.244	34.585	22.804	1.00	64.79
ATOM	19621	CB	PRO	2927	41.198	33.073	22.613	1.00	65.30
ATOM	19622	CG	PRO	2927	40.158	32.914	21.553	1.00	65.30
ATOM	19623	C	PRO	2927	42.229	35.261	21.854	1.00	64.22
ATOM	19624	O	PRO	2927	41.838	35.812	20.824	1.00	63.39
ATOM	19625	N	LYS	2928	43.509	35.210	22.206	1.00	63.55
ATOM	19626	CA	LYS	2928	44.552	35.820	21.392	1.00	63.10
ATOM	19627	CB	LYS	2928	45.862	35.910	22.182	1.00	63.96
ATOM	19628	CG	LYS	2928	45.893	36.997	23.252	1.00	64.57
ATOM	19629	CD	LYS	2928	44.948	36.705	24.408	1.00	65.11
ATOM	19630	CE	LYS	2928	45.029	37.801	25.466	1.00	65.21
ATOM	19631	NZ	LYS	2928	44.169	37.518	26.651	1.00	64.88
ATOM	19632	C	LYS	2928	44.803	35.067	20.091	1.00	62.38
ATOM	19633	O	LYS	2928	45.363	35.622	19.145	1.00	62.12
ATOM	19634	N	PHE	2929	44.387	33.806	20.043	1.00	61.22
ATOM	19635	CA	PHE	2929	44.586	32.993	18.850	1.00	59.91
ATOM	19636	CB	PHE	2929	44.905	31.550	19.248	1.00	59.84
ATOM	19637	CG	PHE	2929	43.882	30.926	20.154	1.00	60.10
ATOM	19638	CD1	PHE	2929	42.659	30.490	19.655	1.00	60.07
ATOM	19639	CD2	PHE	2929	44.144	30.772	21.511	1.00	60.02
ATOM	19640	CE1	PHE	2929	41.711	29.907	20.494	1.00	59.46
ATOM	19641	CE2	PHE	2929	43.202	30.191	22.358	1.00	60.29
ATOM	19642	CZ	PHE	2929	41.983	29.758	21.848	1.00	59.76
ATOM	19643	C	PHE	2929	43.393	33.028	17.904	1.00	59.23
ATOM	19644	O	PHE	2929	43.370	32.321	16.897	1.00	59.32
ATOM	19645	N	ALA	2930	42.409	33.863	18.227	1.00	57.98
ATOM	19646	CA	ALA	2930	41.212	33.995	17.404	1.00	56.99
ATOM	19647	CB	ALA	2930	39.967	33.889	18.273	1.00	56.84
ATOM	19648	C	ALA	2930	41.217	35.324	16.662	1.00	56.37
ATOM	19649	O	ALA	2930	42.091	36.161	16.876	1.00	56.26
ATOM	19650	N	LYS	2931	40.236	35.517	15.788	1.00	56.19
ATOM	19651	CA	LYS	2931	40.140	36.753	15.022	1.00	56.47
ATOM	19652	CB	LYS	2931	41.140	36.734	13.862	1.00	56.43
ATOM	19653	CG	LYS	2931	41.165	38.013	13.037	1.00	56.84
ATOM	19654	CD	LYS	2931	42.212	37.935	11.939	1.00	57.32
ATOM	19655	CE	LYS	2931	42.283	39.226	11.137	1.00	57.79
ATOM	19656	NZ	LYS	2931	43.308	39.151	10.053	1.00	57.52
ATOM	19657	C	LYS	2931	38.730	36.963	14.481	1.00	56.42
ATOM	19658	O	LYS	2931	38.137	36.059	13.892	1.00	56.44
ATOM	19659	N	ASN	2932	38.202	38.165	14.687	1.00	56.03
ATOM	19660	CA	ASN	2932	36.867	38.510	14.220	1.00	55.89
ATOM	19661	CB	ASN	2932	36.274	39.617	15.095	1.00	55.63
ATOM	19662	CG	ASN	2932	34.795	39.827	14.847	1.00	55.62
ATOM	19663	OD1	ASN	2932	34.324	39.747	13.711	1.00	55.34



ATOM	19664	ND2	ASN	2932	34.053	40.111	15.911	1.00	55.48
ATOM	19665	C	ASN	2932	36.946	38.999	12.777	1.00	56.13
ATOM	19666	O	ASN	2932	37.269	40.160	12.527	1.00	56.78
ATOM	19667	N	PHE	2933	36.656	38.115	11.829	1.00	56.14
ATOM	19668	CA	PHE	2933	36.697	38.482	10.422	1.00	57.27
ATOM	19669	CB	PHE	2933	36.817	37.234	9.543	1.00	57.12
ATOM	19670	CG	PHE	2933	38.141	36.540	9.658	1.00	57.30
ATOM	19671	CD1	PHE	2933	38.472	35.829	10.807	1.00	56.85
ATOM	19672	CD2	PHE	2933	39.073	36.621	8.627	1.00	57.13
ATOM	19673	CE1	PHE	2933	39.713	35.209	10.927	1.00	57.60
ATOM	19674	CE2	PHE	2933	40.315	36.006	8.737	1.00	57.30
ATOM	19675	CZ	PHE	2933	40.637	35.299	9.889	1.00	57.81
ATOM	19676	C	PHE	2933	35.471	39.284	10.009	1.00	58.04
ATOM	19677	O	PHE	2933	35.464	39.925	8.957	1.00	58.08
ATOM	19678	N	LEU	2934	34.432	39.242	10.837	1.00	59.10
ATOM	19679	CA	LEU	2934	33.205	39.980	10.556	1.00	59.92
ATOM	19680	CB	LEU	2934	32.050	39.449	11.409	1.00	58.78
ATOM	19681	CG	LEU	2934	30.721	40.200	11.278	1.00	58.03
ATOM	19682	CD1	LEU	2934	30.222	40.120	9.844	1.00	57.10
ATOM	19683	CD2	LEU	2934	29.698	39.610	12.232	1.00	57.76
ATOM	19684	C	LEU	2934	33.426	41.454	10.864	1.00	61.04
ATOM	19685	O	LEU	2934	32.864	42.326	10.204	1.00	61.19
ATOM	19686	N	ALA	2935	34.247	41.721	11.874	1.00	62.38
ATOM	19687	CA	ALA	2935	34.552	43.086	12.274	1.00	64.22
ATOM	19688	CB	ALA	2935	35.328	43.085	13.583	1.00	63.92
ATOM	19689	C	ALA	2935	35.362	43.775	11.182	1.00	65.41
ATOM	19690	O	ALA	2935	35.204	44.972	10.935	1.00	65.96
ATOM	19691	N	GLU	2936	36.229	43.005	10.529	1.00	66.66
ATOM	19692	CA	GLU	2936	37.070	43.523	9.454	1.00	67.61
ATOM	19693	CB	GLU	2936	38.167	42.511	9.105	1.00	68.36
ATOM	19694	CG	GLU	2936	38.961	41.982	10.294	1.00	69.12
ATOM	19695	CD	GLU	2936	39.699	43.070	11.051	1.00	69.89
ATOM	19696	OE1	GLU	2936	39.034	43.903	11.703	1.00	70.02
ATOM	19697	OE2	GLU	2936	40.948	43.094	10.989	1.00	70.26
ATOM	19698	C	GLU	2936	36.216	43.788	8.217	1.00	67.80
ATOM	19699	O	GLU	2936	36.719	44.238	7.187	1.00	67.71
ATOM	19700	N	THR	2937	34.923	43.497	8.328	1.00	67.74
ATOM	19701	CA	THR	2937	33.988	43.696	7.228	1.00	67.18
ATOM	19702	CB	THR	2937	33.961	42.455	6.306	1.00	67.51
ATOM	19703	OG1	THR	2937	33.149	42.726	5.157	1.00	67.78
ATOM	19704	CG2	THR	2937	33.399	41.249	7.048	1.00	67.76
ATOM	19705	C	THR	2937	32.577	43.974	7.757	1.00	66.84
ATOM	19706	O	THR	2937	32.410	44.481	8.869	1.00	66.83
ATOM	19707	N	GLY	2938	31.565	43.650	6.958	1.00	66.24
ATOM	19708	CA	GLY	2938	30.192	43.873	7.374	1.00	65.54
ATOM	19709	C	GLY	2938	29.275	42.763	6.899	1.00	64.98
ATOM	19710	O	GLY	2938	28.054	42.842	7.043	1.00	64.61
ATOM	19711	N	ASP	2939	29.874	41.721	6.331	1.00	64.32
ATOM	19712	CA	ASP	2939	29.123	40.582	5.822	1.00	63.45
ATOM	19713	CB	ASP	2939	29.128	40.595	4.291	1.00	64.45
ATOM	19714	CG	ASP	2939	28.216	39.544	3.698	1.00	65.72
ATOM	19715	OD1	ASP	2939	28.488	38.340	3.889	1.00	66.50
ATOM	19716	OD2	ASP	2939	27.222	39.924	3.042	1.00	66.35
ATOM	19717	C	ASP	2939	29.725	39.277	6.336	1.00	62.43
ATOM	19718	O	ASP	2939	30.928	39.044	6.209	1.00	61.79
ATOM	19719	N	ILE	2940	28.878	38.433	6.920	1.00	61.10
ATOM	19720	CA	ILE	2940	29.310	37.148	7.463	1.00	59.37
ATOM	19721	CB	ILE	2940	28.105	36.342	8.007	1.00	59.30
ATOM	19722	CG2	ILE	2940	28.577	34.996	8.539	1.00	59.02
ATOM	19723	CG1	ILE	2940	27.404	37.136	9.113	1.00	59.59
ATOM	19724	CD1	ILE	2940	26.152	36.472	9.656	1.00	59.03
ATOM	19725	C	ILE	2940	30.026	36.308	6.408	1.00	58.22
ATOM	19726	O	ILE	2940	31.116	35.792	6.652	1.00	57.54
ATOM	19727	N	ARG	2941	29.407	36.171	5.240	1.00	57.25
ATOM	19728	CA	ARG	2941	29.991	35.395	4.154	1.00	56.77
ATOM	19729	CB	ARG	2941	29.033	35.348	2.963	1.00	55.80
ATOM	19730	CG	ARG	2941	27.778	34.525	3.206	1.00	53.72
ATOM	19731	CD	ARG	2941	26.838	34.590	2.013	1.00	52.37
ATOM	19732	NE	ARG	2941	25.691	33.698	2.165	1.00	51.33
ATOM	19733	CZ	ARG	2941	24.805	33.775	3.153	1.00	50.67
ATOM	19734	NH1	ARG	2941	24.927	34.706	4.089	1.00	50.47
ATOM	19735	NH2	ARG	2941	23.793	32.919	3.204	1.00	50.57
ATOM	19736	C	ARG	2941	31.328	35.986	3.721	1.00	57.51
ATOM	19737	O	ARG	2941	32.278	35.254	3.441	1.00	58.07
ATOM	19738	N	ALA	2942	31.394	37.313	3.666	1.00	57.53
ATOM	19739	CA	ALA	2942	32.618	38.001	3.275	1.00	57.14
ATOM	19740	CB	ALA	2942	32.384	39.506	3.243	1.00	57.24

ATOM	19741	C	ALA	2942	33.729	37.663	4.262	1.00	56.97
ATOM	19742	O	ALA	2942	34.882	37.475	3.874	1.00	57.28
ATOM	19743	N	ALA	2943	33.372	37.584	5.540	1.00	56.48
ATOM	19744	CA	ALA	2943	34.338	37.263	6.583	1.00	56.25
ATOM	19745	CB	ALA	2943	33.679	37.359	7.950	1.00	56.65
ATOM	19746	C	ALA	2943	34.896	35.861	6.368	1.00	56.16
ATOM	19747	O	ALA	2943	36.044	35.583	6.712	1.00	56.09
ATOM	19748	N	VAL	2944	34.077	34.984	5.792	1.00	56.16
ATOM	19749	CA	VAL	2944	34.485	33.609	5.526	1.00	55.63
ATOM	19750	CB	VAL	2944	33.279	32.735	5.106	1.00	56.09
ATOM	19751	CG1	VAL	2944	33.745	31.318	4.801	1.00	55.49
ATOM	19752	CG2	VAL	2944	32.234	32.722	6.213	1.00	55.66
ATOM	19753	C	VAL	2944	35.532	33.557	4.420	1.00	55.75
ATOM	19754	O	VAL	2944	36.568	32.909	4.569	1.00	55.47
ATOM	19755	N	ARG	2945	35.257	34.238	3.311	1.00	55.89
ATOM	19756	CA	ARG	2945	36.188	34.264	2.189	1.00	55.76
ATOM	19757	CB	ARG	2945	35.622	35.094	1.034	1.00	55.60
ATOM	19758	CG	ARG	2945	34.413	34.471	0.356	1.00	56.71
ATOM	19759	CD	ARG	2945	34.101	35.175	-0.956	1.00	57.24
ATOM	19760	NE	ARG	2945	33.775	36.585	-0.762	1.00	57.48
ATOM	19761	CZ	ARG	2945	32.653	37.024	-0.199	1.00	57.88
ATOM	19762	NH1	ARG	2945	31.740	36.163	0.228	1.00	57.99
ATOM	19763	NH2	ARG	2945	32.445	38.327	-0.061	1.00	57.70
ATOM	19764	C	ARG	2945	37.532	34.836	2.617	1.00	55.48
ATOM	19765	O	ARG	2945	38.585	34.335	2.216	1.00	55.77
ATOM	19766	N	GLN	2946	37.491	35.886	3.431	1.00	54.96
ATOM	19767	CA	GLN	2946	38.710	36.520	3.918	1.00	54.60
ATOM	19768	CB	GLN	2946	38.368	37.747	4.769	1.00	55.75
ATOM	19769	CG	GLN	2946	39.574	38.580	5.179	1.00	57.10
ATOM	19770	CD	GLN	2946	39.215	39.681	6.161	1.00	58.43
ATOM	19771	OE1	GLN	2946	38.307	40.478	5.917	1.00	59.03
ATOM	19772	NE2	GLN	2946	39.932	39.733	7.279	1.00	58.79
ATOM	19773	C	GLN	2946	39.482	35.509	4.757	1.00	53.60
ATOM	19774	O	GLN	2946	40.707	35.416	4.670	1.00	53.90
ATOM	19775	N	TYR	2947	38.752	34.754	5.571	1.00	52.23
ATOM	19776	CA	TYR	2947	39.350	33.736	6.426	1.00	50.90
ATOM	19777	CB	TYR	2947	38.267	33.086	7.291	1.00	49.81
ATOM	19778	CG	TYR	2947	38.721	31.849	8.030	1.00	48.86
ATOM	19779	CD1	TYR	2947	39.824	31.887	8.882	1.00	48.05
ATOM	19780	CE1	TYR	2947	40.240	30.751	9.570	1.00	48.01
ATOM	19781	CD2	TYR	2947	38.042	30.639	7.884	1.00	48.25
ATOM	19782	CE2	TYR	2947	38.449	29.497	8.567	1.00	47.92
ATOM	19783	CZ	TYR	2947	39.548	29.559	9.408	1.00	48.00
ATOM	19784	OH	TYR	2947	39.957	28.434	10.087	1.00	46.78
ATOM	19785	C	TYR	2947	40.045	32.679	5.574	1.00	50.61
ATOM	19786	O	TYR	2947	41.195	32.315	5.828	1.00	50.43
ATOM	19787	N	MET	2948	39.333	32.194	4.562	1.00	50.53
ATOM	19788	CA	MET	2948	39.856	31.183	3.652	1.00	50.34
ATOM	19789	CB	MET	2948	38.785	30.803	2.627	1.00	50.02
ATOM	19790	CG	MET	2948	37.518	30.204	3.220	1.00	47.76
ATOM	19791	SD	MET	2948	36.190	30.122	1.998	1.00	48.64
ATOM	19792	CE	MET	2948	36.932	29.063	0.769	1.00	48.77
ATOM	19793	C	MET	2948	41.094	31.701	2.921	1.00	51.03
ATOM	19794	O	MET	2948	42.109	31.008	2.827	1.00	51.21
ATOM	19795	N	ALA	2949	41.001	32.923	2.407	1.00	50.88
ATOM	19796	CA	ALA	2949	42.103	33.533	1.674	1.00	51.33
ATOM	19797	CB	ALA	2949	41.640	34.835	1.033	1.00	51.05
ATOM	19798	C	ALA	2949	43.328	33.789	2.547	1.00	51.80
ATOM	19799	O	ALA	2949	44.457	33.528	2.128	1.00	52.35
ATOM	19800	N	GLU	2950	43.112	34.296	3.758	1.00	52.03
ATOM	19801	CA	GLU	2950	44.222	34.583	4.662	1.00	52.73
ATOM	19802	CB	GLU	2950	43.735	35.373	5.880	1.00	52.54
ATOM	19803	CG	GLU	2950	43.593	36.864	5.622	1.00	53.18
ATOM	19804	CD	GLU	2950	43.213	37.643	6.867	1.00	53.56
ATOM	19805	OE1	GLU	2950	43.847	37.429	7.923	1.00	53.35
ATOM	19806	OE2	GLU	2950	42.287	38.478	6.787	1.00	54.33
ATOM	19807	C	GLU	2950	44.971	33.340	5.128	1.00	53.26
ATOM	19808	O	GLU	2950	46.168	33.404	5.413	1.00	53.12
ATOM	19809	N	VAL	2951	44.272	32.213	5.210	1.00	53.26
ATOM	19810	CA	VAL	2951	44.903	30.971	5.641	1.00	53.29
ATOM	19811	CB	VAL	2951	43.849	29.891	5.970	1.00	53.31
ATOM	19812	CG1	VAL	2951	44.533	28.561	6.259	1.00	53.04
ATOM	19813	CG2	VAL	2951	43.025	30.327	7.174	1.00	52.46
ATOM	19814	C	VAL	2951	45.849	30.442	4.568	1.00	53.26
ATOM	19815	O	VAL	2951	47.012	30.145	4.847	1.00	53.25
ATOM	19816	N	GLU	2952	45.348	30.328	3.342	1.00	53.64
ATOM	19817	CA	GLU	2952	46.157	29.835	2.232	1.00	54.22

ATOM	19818	CB	GLU	2952	45.328	29.793	0.947	1.00	54.72
ATOM	19819	CG	GLU	2952	46.082	29.252	-0.261	1.00	55.51
ATOM	19820	CD	GLU	2952	45.257	29.300	-1.532	1.00	56.73
ATOM	19821	OE1	GLU	2952	45.774	28.890	-2.594	1.00	57.69
ATOM	19822	OE2	GLU	2952	44.092	29.750	-1.473	1.00	56.56
ATOM	19823	C	GLU	2952	47.370	30.730	2.023	1.00	54.22
ATOM	19824	O	GLU	2952	48.430	30.266	1.608	1.00	54.53
ATOM	19825	N	SER	2953	47.202	32.015	2.318	1.00	54.17
ATOM	19826	CA	SER	2953	48.272	32.993	2.162	1.00	54.43
ATOM	19827	CB	SER	2953	47.690	34.407	2.129	1.00	54.29
ATOM	19828	OG	SER	2953	46.736	34.542	1.092	1.00	56.12
ATOM	19829	C	SER	2953	49.279	32.892	3.297	1.00	54.04
ATOM	19830	O	SER	2953	50.487	32.943	3.074	1.00	54.27
ATOM	19831	N	GLY	2954	48.771	32.750	4.516	1.00	53.77
ATOM	19832	CA	GLY	2954	49.642	32.657	5.672	1.00	53.06
ATOM	19833	C	GLY	2954	49.442	33.832	6.609	1.00	52.88
ATOM	19834	O	GLY	2954	49.975	33.854	7.719	1.00	51.86
ATOM	19835	N	VAL	2955	48.670	34.815	6.156	1.00	52.98
ATOM	19836	CA	VAL	2955	48.388	36.003	6.953	1.00	53.65
ATOM	19837	CB	VAL	2955	47.426	36.952	6.214	1.00	54.01
ATOM	19838	CG1	VAL	2955	47.201	38.208	7.039	1.00	53.59
ATOM	19839	CG2	VAL	2955	47.990	37.300	4.846	1.00	54.14
ATOM	19840	C	VAL	2955	47.756	35.606	8.281	1.00	54.39
ATOM	19841	O	VAL	2955	48.003	36.236	9.309	1.00	53.92
ATOM	19842	N	TYR	2956	46.934	34.560	8.249	1.00	54.97
ATOM	19843	CA	TYR	2956	46.271	34.070	9.451	1.00	55.91
ATOM	19844	CB	TYR	2956	44.756	34.258	9.346	1.00	56.40
ATOM	19845	CG	TYR	2956	44.014	33.837	10.595	1.00	57.63
ATOM	19846	CD1	TYR	2956	44.082	34.600	11.761	1.00	57.68
ATOM	19847	CE1	TYR	2956	43.423	34.202	12.923	1.00	58.33
ATOM	19848	CD2	TYR	2956	43.265	32.660	10.621	1.00	58.32
ATOM	19849	CE2	TYR	2956	42.603	32.251	11.778	1.00	58.41
ATOM	19850	CZ	TYR	2956	42.686	33.027	12.924	1.00	58.65
ATOM	19851	OH	TYR	2956	42.033	32.631	14.069	1.00	58.77
ATOM	19852	C	TYR	2956	46.577	32.591	9.675	1.00	56.09
ATOM	19853	O	TYR	2956	46.478	31.779	8.754	1.00	56.17
ATOM	19854	N	PRO	2957	46.962	32.223	10.908	1.00	56.16
ATOM	19855	CD	PRO	2957	47.177	30.824	11.320	1.00	56.15
ATOM	19856	CA	PRO	2957	47.109	33.126	12.052	1.00	56.59
ATOM	19857	CB	PRO	2957	47.081	32.173	13.239	1.00	56.39
ATOM	19858	CG	PRO	2957	47.791	30.980	12.698	1.00	56.47
ATOM	19859	C	PRO	2957	48.405	33.928	11.984	1.00	57.30
ATOM	19860	O	PRO	2957	49.413	33.452	11.462	1.00	57.47
ATOM	19861	N	GLY	2958	48.370	35.148	12.512	1.00	58.29
ATOM	19862	CA	GLY	2958	49.551	35.991	12.504	1.00	59.19
ATOM	19863	C	GLY	2958	50.469	35.674	13.668	1.00	59.90
ATOM	19864	O	GLY	2958	50.359	34.612	14.282	1.00	59.93
ATOM	19865	N	GLU	2959	51.376	36.595	13.975	1.00	60.38
ATOM	19866	CA	GLU	2959	52.312	36.400	15.076	1.00	60.87
ATOM	19867	CB	GLU	2959	53.457	37.413	14.988	1.00	61.40
ATOM	19868	CG	GLU	2959	54.521	37.227	16.060	1.00	61.82
ATOM	19869	CD	GLU	2959	55.285	35.926	15.903	1.00	62.12
ATOM	19870	OE1	GLU	2959	56.067	35.579	16.813	1.00	62.78
ATOM	19871	OE2	GLU	2959	55.108	35.251	14.867	1.00	62.30
ATOM	19872	C	GLU	2959	51.605	36.548	16.419	1.00	60.84
ATOM	19873	O	GLU	2959	51.933	35.855	17.384	1.00	60.59
ATOM	19874	N	GLU	2960	50.634	37.454	16.477	1.00	61.19
ATOM	19875	CA	GLU	2960	49.889	37.689	17.709	1.00	61.99
ATOM	19876	CB	GLU	2960	48.941	38.882	17.554	1.00	62.57
ATOM	19877	CG	GLU	2960	49.390	39.924	16.546	1.00	63.87
ATOM	19878	CD	GLU	2960	49.017	39.551	15.123	1.00	64.41
ATOM	19879	OE1	GLU	2960	47.804	39.475	14.828	1.00	64.20
ATOM	19880	OE2	GLU	2960	49.933	39.330	14.301	1.00	64.88
ATOM	19881	C	GLU	2960	49.077	36.450	18.052	1.00	61.91
ATOM	19882	O	GLU	2960	48.947	36.081	19.219	1.00	62.32
ATOM	19883	N	HIS	2961	48.534	35.813	17.020	1.00	61.34
ATOM	19884	CA	HIS	2961	47.723	34.615	17.196	1.00	60.73
ATOM	19885	CB	HIS	2961	46.855	34.386	15.957	1.00	59.89
ATOM	19886	CG	HIS	2961	46.116	35.607	15.504	1.00	58.97
ATOM	19887	CD2	HIS	2961	46.080	36.231	14.302	1.00	58.22
ATOM	19888	ND1	HIS	2961	45.285	36.326	16.334	1.00	58.84
ATOM	19889	CE1	HIS	2961	44.768	37.341	15.665	1.00	58.19
ATOM	19890	NE2	HIS	2961	45.233	37.306	14.430	1.00	57.99
ATOM	19891	C	HIS	2961	48.599	33.391	17.437	1.00	60.75
ATOM	19892	O	HIS	2961	48.106	32.261	17.467	1.00	60.65
ATOM	19893	N	SER	2962	49.897	33.619	17.614	1.00	60.45
ATOM	19894	CA	SER	2962	50.839	32.529	17.844	1.00	60.48

ATOM	19895	CB	SER	2962	52.007	32.630	16.862	1.00	60.35
ATOM	19896	OG	SER	2962	51.552	32.553	15.522	1.00	59.02
ATOM	19897	C	SER	2962	51.370	32.518	19.273	1.00	60.73
ATOM	19898	O	SER	2962	51.339	33.534	19.964	1.00	60.10
ATOM	19899	N	PHE	2963	51.851	31.356	19.708	1.00	61.57
ATOM	19900	CA	PHE	2963	52.394	31.194	21.053	1.00	62.25
ATOM	19901	CB	PHE	2963	51.644	30.091	21.807	1.00	63.03
ATOM	19902	CG	PHE	2963	50.248	30.470	22.214	1.00	64.44
ATOM	19903	CD1	PHE	2963	49.278	30.750	21.256	1.00	64.83
ATOM	19904	CD2	PHE	2963	49.903	30.552	23.560	1.00	64.71
ATOM	19905	CE1	PHE	2963	47.983	31.107	21.632	1.00	64.99
ATOM	19906	CE2	PHE	2963	48.614	30.906	23.948	1.00	65.11
ATOM	19907	CZ	PHE	2963	47.651	31.185	22.981	1.00	65.30
ATOM	19908	C	PHE	2963	53.880	30.853	21.006	1.00	62.31
ATOM	19909	O	PHE	2963	54.379	30.323	20.011	1.00	61.84
ATOM	19910	N	HIS	2964	54.577	31.156	22.096	1.00	62.35
ATOM	19911	CA	HIS	2964	56.007	30.897	22.201	1.00	62.42
ATOM	19912	CB	HIS	2964	56.795	32.135	21.772	1.00	62.17
ATOM	19913	CG	HIS	2964	56.654	32.468	20.318	1.00	62.21
ATOM	19914	CD2	HIS	2964	56.082	33.526	19.696	1.00	62.06
ATOM	19915	ND1	HIS	2964	57.137	31.652	19.319	1.00	62.16
ATOM	19916	CE1	HIS	2964	56.870	32.193	18.143	1.00	62.55
ATOM	19917	NE2	HIS	2964	56.230	33.330	18.344	1.00	62.23
ATOM	19918	C	HIS	2964	56.382	30.514	23.628	1.00	62.87
ATOM	19919	O	HIS	2964	57.101	29.507	23.800	1.00	63.17
ATOM	19920	OXT	HIS	2964	55.958	31.232	24.558	1.00	63.88
ATOM	19921	C1	KPL	2965	38.359	24.260	19.395	1.00	44.32
ATOM	19922	C2	KPL	2965	38.509	22.957	18.586	1.00	44.37
ATOM	19923	C3	KPL	2965	38.070	23.219	17.138	1.00	44.11
ATOM	19924	C4	KPL	2965	39.994	22.528	18.576	1.00	44.41
ATOM	19925	O1	KPL	2965	40.466	22.273	19.906	1.00	46.59
ATOM	19926	C5	KPL	2965	37.616	21.846	19.201	1.00	44.46
ATOM	19927	O2	KPL	2965	38.120	20.811	19.596	1.00	45.29
ATOM	19928	C6	KPL	2965	36.112	22.005	19.331	1.00	44.39
ATOM	19929	O3	KPL	2965	35.550	23.016	18.951	1.00	44.59
ATOM	19930	O4	KPL	2965	35.382	21.012	19.874	1.00	43.64
ATOM	19931	MG+2	MG2	3001	3.994	24.216	47.085	1.00	41.37
ATOM	19932	MG+2	MG2	3002	6.567	28.508	15.105	1.00	41.66
ATOM	19933	MG+2	MG2	3003	-3.352	1.040	0.322	1.00	26.64
ATOM	19934	MG+2	MG2	3004	-12.375	-19.811	23.437	1.00	24.57
ATOM	19935	MG+2	MG2	3005	-7.605	-5.894	52.220	1.00	34.50
ATOM	19936	MG+2	MG2	3006	27.460	-4.705	0.894	1.00	30.26
ATOM	19937	MG+2	MG2	3007	17.331	-30.253	18.884	1.00	32.29
ATOM	19938	MG+2	MG2	3008	19.663	-21.554	49.976	1.00	25.48
ATOM	19939	MG+2	MG2	3009	31.302	8.730	51.343	1.00	41.34
ATOM	19940	MG+2	MG2	3010	36.277	19.579	21.091	1.00	52.60
ATOM	19941	OH2	WAT	3011	31.424	-16.107	39.470	1.00	10.76
ATOM	19942	OH2	WAT	3012	12.698	-18.611	32.844	1.00	10.49
ATOM	19943	OH2	WAT	3013	-8.246	1.949	11.544	1.00	13.19
ATOM	19944	OH2	WAT	3014	27.207	-31.545	22.513	1.00	13.62
ATOM	19945	OH2	WAT	3015	25.517	-21.182	20.257	1.00	10.14
ATOM	19946	OH2	WAT	3016	-7.674	17.525	37.246	1.00	13.74
ATOM	19947	OH2	WAT	3017	-2.159	-6.488	21.338	1.00	15.76
ATOM	19948	OH2	WAT	3018	0.835	-9.327	15.447	1.00	11.52
ATOM	19949	OH2	WAT	3019	3.764	-32.000	22.104	1.00	11.84
ATOM	19950	OH2	WAT	3020	37.123	-1.512	39.521	1.00	16.58
ATOM	19951	OH2	WAT	3021	17.933	-46.120	14.538	1.00	11.66
ATOM	19952	OH2	WAT	3022	10.775	-17.843	17.172	1.00	15.20
ATOM	19953	OH2	WAT	3023	15.784	-11.897	13.470	1.00	11.48
ATOM	19954	OH2	WAT	3024	-14.336	22.570	-15.394	1.00	13.53
ATOM	19955	OH2	WAT	3025	12.577	-9.564	9.580	1.00	14.31
ATOM	19956	OH2	WAT	3026	-23.367	12.451	2.123	1.00	20.69
ATOM	19957	OH2	WAT	3027	0.767	-19.320	30.486	1.00	16.05
ATOM	19958	OH2	WAT	3028	-0.982	-8.203	33.657	1.00	15.14
ATOM	19959	OH2	WAT	3029	5.689	5.614	45.308	1.00	11.24
ATOM	19960	OH2	WAT	3030	4.143	4.088	43.662	1.00	15.33
ATOM	19961	OH2	WAT	3031	-16.843	-2.595	47.938	1.00	11.00
ATOM	19962	OH2	WAT	3032	12.241	13.450	38.158	1.00	23.70
ATOM	19963	OH2	WAT	3033	-5.960	-12.449	28.625	1.00	14.48
ATOM	19964	OH2	WAT	3034	16.382	-12.732	16.031	1.00	14.41
ATOM	19965	OH2	WAT	3035	33.192	-17.361	37.635	1.00	14.11
ATOM	19966	OH2	WAT	3036	29.576	-3.425	53.736	1.00	16.58
ATOM	19967	OH2	WAT	3037	25.016	-14.473	37.183	1.00	18.91
ATOM	19968	OH2	WAT	3038	10.453	7.434	47.450	1.00	13.74
ATOM	19969	OH2	WAT	3039	0.953	-32.769	9.383	1.00	15.20
ATOM	19970	OH2	WAT	3040	-7.328	8.718	-18.137	1.00	18.80
ATOM	19971	OH2	WAT	3041	-8.835	2.730	43.501	1.00	10.87

ATOM	19972	OH2	WAT	3042	-1.580	-10.794	33.592	1.00	12.62
ATOM	19973	OH2	WAT	3043	-12.914	-8.541	27.617	1.00	12.73
ATOM	19974	OH2	WAT	3044	21.710	13.409	25.403	1.00	31.57
ATOM	19975	OH2	WAT	3045	7.683	-20.302	30.445	1.00	10.85
ATOM	19976	OH2	WAT	3046	1.102	-30.671	18.260	1.00	15.68
ATOM	19977	OH2	WAT	3047	28.173	7.798	31.821	1.00	20.07
ATOM	19978	OH2	WAT	3048	-1.179	-14.949	31.883	1.00	13.42
ATOM	19979	OH2	WAT	3049	13.221	14.116	19.297	1.00	20.69
ATOM	19980	OH2	WAT	3050	-2.044	20.189	37.466	1.00	16.68
ATOM	19981	OH2	WAT	3051	17.876	-14.432	39.307	1.00	16.30
ATOM	19982	OH2	WAT	3052	-0.744	-30.549	20.671	1.00	17.77
ATOM	19983	OH2	WAT	3053	35.481	-39.258	29.142	1.00	12.21
ATOM	19984	OH2	WAT	3054	-9.507	4.070	-12.790	1.00	16.79
ATOM	19985	OH2	WAT	3055	31.604	-1.451	46.191	1.00	14.27
ATOM	19986	OH2	WAT	3056	-14.406	5.407	38.561	1.00	16.53
ATOM	19987	OH2	WAT	3057	-0.928	-11.952	36.038	1.00	12.23
ATOM	19988	OH2	WAT	3058	0.468	-17.148	54.501	1.00	17.45
ATOM	19989	OH2	WAT	3059	5.125	-36.602	35.570	1.00	20.20
ATOM	19990	OH2	WAT	3060	0.620	-51.357	23.066	1.00	14.88
ATOM	19991	OH2	WAT	3061	17.818	-20.565	43.493	1.00	14.36
ATOM	19992	OH2	WAT	3062	23.320	7.615	14.657	1.00	12.79
ATOM	19993	OH2	WAT	3063	-13.311	2.901	39.033	1.00	16.11
ATOM	19994	OH2	WAT	3064	32.528	-20.167	23.589	1.00	13.88
ATOM	19995	OH2	WAT	3065	13.191	-4.951	48.336	1.00	19.12
ATOM	19996	OH2	WAT	3066	-11.736	7.247	3.147	1.00	13.94
ATOM	19997	OH2	WAT	3067	32.586	-0.717	43.888	1.00	14.86
ATOM	19998	OH2	WAT	3068	11.327	19.214	30.461	1.00	15.85
ATOM	19999	OH2	WAT	3069	19.105	-45.037	17.671	1.00	11.69
ATOM	20000	OH2	WAT	3070	-9.957	-7.454	6.721	1.00	17.25
ATOM	20001	OH2	WAT	3071	9.085	-16.151	57.247	1.00	14.59
ATOM	20002	OH2	WAT	3072	39.426	3.322	24.588	1.00	19.14
ATOM	20003	OH2	WAT	3073	3.530	9.016	39.444	1.00	15.75
ATOM	20004	OH2	WAT	3074	-10.708	15.943	-14.582	1.00	14.94
ATOM	20005	OH2	WAT	3075	-0.027	-17.054	29.261	1.00	12.27
ATOM	20006	OH2	WAT	3076	14.927	-5.859	-4.822	1.00	16.81
ATOM	20007	OH2	WAT	3077	-6.247	19.997	21.778	1.00	16.82
ATOM	20008	OH2	WAT	3078	23.194	-3.748	41.708	1.00	13.63
ATOM	20009	OH2	WAT	3079	3.044	-14.551	15.690	1.00	11.83
ATOM	20010	OH2	WAT	3080	15.856	-44.437	15.495	1.00	16.34
ATOM	20011	OH2	WAT	3081	2.658	-6.744	11.642	1.00	13.95
ATOM	20012	OH2	WAT	3082	18.097	-3.425	45.902	1.00	14.60
ATOM	20013	OH2	WAT	3083	17.808	-10.614	17.279	1.00	20.73
ATOM	20014	OH2	WAT	3084	17.717	-23.621	16.919	1.00	14.50
ATOM	20015	OH2	WAT	3085	20.450	-28.027	39.405	1.00	20.21
ATOM	20016	OH2	WAT	3086	-16.370	8.639	40.975	1.00	19.28
ATOM	20017	OH2	WAT	3087	25.222	-0.313	11.241	1.00	15.89
ATOM	20018	OH2	WAT	3088	11.033	-3.025	-5.467	1.00	16.78
ATOM	20019	OH2	WAT	3089	-2.490	-3.684	17.486	1.00	14.21
ATOM	20020	OH2	WAT	3090	22.173	-49.823	28.580	1.00	17.88
ATOM	20021	OH2	WAT	3091	-8.999	-16.320	27.976	1.00	15.29
ATOM	20022	OH2	WAT	3092	-19.387	-2.818	23.319	1.00	14.53
ATOM	20023	OH2	WAT	3093	35.100	-8.958	15.354	1.00	16.00
ATOM	20024	OH2	WAT	3094	-10.894	6.982	14.192	1.00	14.83
ATOM	20025	OH2	WAT	3095	38.364	-11.130	14.395	1.00	14.78
ATOM	20026	OH2	WAT	3096	-14.355	9.093	12.720	1.00	16.02
ATOM	20027	OH2	WAT	3097	-2.640	-2.142	6.218	1.00	14.25
ATOM	20028	OH2	WAT	3098	14.236	-16.887	34.025	1.00	14.37
ATOM	20029	OH2	WAT	3099	-6.286	-20.729	35.017	1.00	17.92
ATOM	20030	OH2	WAT	3100	5.618	-54.564	19.599	1.00	18.87
ATOM	20031	OH2	WAT	3101	24.798	12.998	34.734	1.00	20.61
ATOM	20032	OH2	WAT	3102	18.157	-48.389	22.944	1.00	18.26
ATOM	20033	OH2	WAT	3103	3.448	-22.348	28.656	1.00	16.83
ATOM	20034	OH2	WAT	3104	37.310	16.574	60.707	1.00	13.63
ATOM	20035	OH2	WAT	3105	7.399	10.930	14.456	1.00	15.32
ATOM	20036	OH2	WAT	3106	-4.065	-6.934	32.716	1.00	13.85
ATOM	20037	OH2	WAT	3107	26.681	-0.650	6.361	1.00	16.84
ATOM	20038	OH2	WAT	3108	2.621	-29.273	20.371	1.00	18.02
ATOM	20039	OH2	WAT	3109	-8.257	9.695	-15.506	1.00	17.18
ATOM	20040	OH2	WAT	3110	-5.408	3.177	-13.054	1.00	16.87
ATOM	20041	OH2	WAT	3111	-14.226	-15.880	35.035	1.00	19.49
ATOM	20042	OH2	WAT	3112	8.844	-18.039	14.940	1.00	13.32
ATOM	20043	OH2	WAT	3113	10.416	-45.629	8.580	1.00	19.28
ATOM	20044	OH2	WAT	3114	24.321	-21.344	39.443	1.00	14.51
ATOM	20045	OH2	WAT	3115	32.620	-1.644	10.966	1.00	18.64
ATOM	20046	OH2	WAT	3116	21.077	-7.973	16.352	1.00	16.09
ATOM	20047	OH2	WAT	3117	11.416	8.982	43.352	1.00	19.27
ATOM	20048	OH2	WAT	3118	35.781	-10.327	4.606	1.00	17.92

ATOM	20049	OH2	WAT	3119	11.474	7.062	8.572	1.00	18.56
ATOM	20050	OH2	WAT	3120	17.899	-18.896	18.746	1.00	14.76
ATOM	20051	OH2	WAT	3121	9.407	1.445	-5.210	1.00	17.30
ATOM	20052	OH2	WAT	3122	11.378	-25.783	40.687	1.00	19.55
ATOM	20053	OH2	WAT	3123	30.129	-21.017	24.522	1.00	15.05
ATOM	20054	OH2	WAT	3124	15.046	-43.858	18.014	1.00	11.77
ATOM	20055	OH2	WAT	3125	-9.121	2.705	47.977	1.00	17.81
ATOM	20056	OH2	WAT	3126	34.332	-14.474	60.657	1.00	24.94
ATOM	20057	OH2	WAT	3127	-3.766	0.667	55.823	1.00	21.51
ATOM	20058	OH2	WAT	3128	33.157	-10.971	35.543	1.00	17.96
ATOM	20059	OH2	WAT	3129	20.042	-48.084	29.393	1.00	17.39
ATOM	20060	OH2	WAT	3130	7.739	-10.910	-9.034	1.00	16.41
ATOM	20061	OH2	WAT	3131	-2.901	-28.128	17.100	1.00	11.64
ATOM	20062	OH2	WAT	3132	8.775	-17.442	26.955	1.00	15.53
ATOM	20063	OH2	WAT	3133	10.635	-14.815	5.424	1.00	17.26
ATOM	20064	OH2	WAT	3134	-1.407	15.539	35.202	1.00	21.03
ATOM	20065	OH2	WAT	3135	22.262	-3.590	54.476	1.00	17.12
ATOM	20066	OH2	WAT	3136	-13.401	-21.508	25.158	1.00	27.63
ATOM	20067	OH2	WAT	3137	5.128	-2.847	47.443	1.00	12.45
ATOM	20068	OH2	WAT	3138	-15.619	-3.485	24.661	1.00	9.97
ATOM	20069	OH2	WAT	3139	-2.531	-40.976	12.328	1.00	13.52
ATOM	20070	OH2	WAT	3140	-1.909	-4.892	36.246	1.00	16.91
ATOM	20071	OH2	WAT	3141	-19.604	14.972	6.233	1.00	20.13
ATOM	20072	OH2	WAT	3142	-6.017	-42.085	21.509	1.00	16.39
ATOM	20073	OH2	WAT	3143	-7.945	16.282	-13.491	1.00	17.83
ATOM	20074	OH2	WAT	3144	30.702	28.827	44.434	1.00	22.57
ATOM	20075	OH2	WAT	3145	-9.294	18.400	35.274	1.00	15.61
ATOM	20076	OH2	WAT	3146	30.373	-21.453	48.978	1.00	13.66
ATOM	20077	OH2	WAT	3147	-11.335	18.904	38.629	1.00	18.20
ATOM	20078	OH2	WAT	3148	5.189	16.665	30.863	1.00	16.04
ATOM	20079	OH2	WAT	3149	8.219	-17.924	40.764	1.00	16.89
ATOM	20080	OH2	WAT	3150	41.387	-1.649	40.145	1.00	18.07
ATOM	20081	OH2	WAT	3151	-3.245	-39.921	9.833	1.00	18.23
ATOM	20082	OH2	WAT	3152	8.198	9.770	11.939	1.00	15.65
ATOM	20083	OH2	WAT	3153	-13.314	6.554	15.618	1.00	21.95
ATOM	20084	OH2	WAT	3154	11.910	-17.540	37.668	1.00	13.80
ATOM	20085	OH2	WAT	3155	-20.114	-12.582	21.243	1.00	16.42
ATOM	20086	OH2	WAT	3156	-1.281	-11.060	5.278	1.00	17.26
ATOM	20087	OH2	WAT	3157	-17.431	3.089	39.729	1.00	12.26
ATOM	20088	OH2	WAT	3158	-3.548	-35.710	27.746	1.00	16.68
ATOM	20089	OH2	WAT	3159	-17.120	5.018	37.848	1.00	16.94
ATOM	20090	OH2	WAT	3160	13.477	-2.627	54.843	1.00	18.64
ATOM	20091	OH2	WAT	3161	-5.243	-43.014	23.849	1.00	19.60
ATOM	20092	OH2	WAT	3162	-13.199	-10.151	29.903	1.00	15.06
ATOM	20093	OH2	WAT	3163	2.054	-26.977	54.316	1.00	21.37
ATOM	20094	OH2	WAT	3164	23.993	-29.599	61.802	1.00	20.85
ATOM	20095	OH2	WAT	3165	24.933	1.982	44.938	1.00	17.95
ATOM	20096	OH2	WAT	3166	16.321	-50.335	21.944	1.00	14.95
ATOM	20097	OH2	WAT	3167	4.185	-10.137	40.452	1.00	18.49
ATOM	20098	OH2	WAT	3168	-6.542	2.530	38.971	1.00	18.82
ATOM	20099	OH2	WAT	3169	13.980	-5.493	11.385	1.00	15.38
ATOM	20100	OH2	WAT	3170	23.236	4.920	15.059	1.00	16.06
ATOM	20101	OH2	WAT	3171	-18.040	24.374	52.309	1.00	20.78
ATOM	20102	OH2	WAT	3172	37.479	14.626	63.159	1.00	18.93
ATOM	20103	OH2	WAT	3173	40.548	4.987	47.799	1.00	20.00
ATOM	20104	OH2	WAT	3174	-7.860	3.921	45.943	1.00	16.64
ATOM	20105	OH2	WAT	3175	4.737	-16.653	43.656	1.00	23.24
ATOM	20106	OH2	WAT	3176	19.671	-2.177	44.183	1.00	15.91
ATOM	20107	OH2	WAT	3177	9.864	-0.921	9.302	1.00	19.67
ATOM	20108	OH2	WAT	3178	25.798	-18.855	39.813	1.00	15.04
ATOM	20109	OH2	WAT	3179	-3.409	-1.361	49.300	1.00	15.09
ATOM	20110	OH2	WAT	3180	5.816	22.238	40.960	1.00	19.83
ATOM	20111	OH2	WAT	3181	21.304	15.686	38.364	1.00	19.23
ATOM	20112	OH2	WAT	3182	33.264	-12.303	53.961	1.00	22.43
ATOM	20113	OH2	WAT	3183	-19.721	-30.018	18.220	1.00	17.02
ATOM	20114	OH2	WAT	3184	30.616	19.768	70.046	1.00	18.96
ATOM	20115	OH2	WAT	3185	13.397	11.894	3.881	1.00	22.84
ATOM	20116	OH2	WAT	3186	21.307	4.413	11.054	1.00	18.87
ATOM	20117	OH2	WAT	3187	-14.018	16.237	-13.520	1.00	13.75
ATOM	20118	OH2	WAT	3188	27.233	3.845	48.990	1.00	15.76
ATOM	20119	OH2	WAT	3189	18.322	-35.199	37.473	1.00	21.41
ATOM	20120	OH2	WAT	3190	3.346	10.973	16.658	1.00	17.09
ATOM	20121	OH2	WAT	3191	-1.268	0.118	45.115	1.00	20.12
ATOM	20122	OH2	WAT	3192	8.866	-56.007	22.359	1.00	22.50
ATOM	20123	OH2	WAT	3193	4.755	11.704	-21.103	1.00	21.21
ATOM	20124	OH2	WAT	3194	29.496	7.747	5.130	1.00	24.25
ATOM	20125	OH2	WAT	3195	6.916	-2.587	12.344	1.00	16.98

ATOM	20126	OH2	WAT	3196	6.422	15.829	26.439	1.00	19.29
ATOM	20127	OH2	WAT	3197	-13.894	-11.050	64.371	1.00	18.77
ATOM	20128	OH2	WAT	3198	3.453	-13.631	20.195	1.00	16.50
ATOM	20129	OH2	WAT	3199	13.511	-27.216	36.881	1.00	18.17
ATOM	20130	OH2	WAT	3200	10.479	-16.462	40.801	1.00	14.13
ATOM	20131	OH2	WAT	3201	19.084	1.615	46.456	1.00	19.77
ATOM	20132	OH2	WAT	3202	13.651	-21.751	8.937	1.00	19.12
ATOM	20133	OH2	WAT	3203	30.258	-1.193	39.421	1.00	23.25
ATOM	20134	OH2	WAT	3204	22.221	-46.203	12.674	1.00	18.08
ATOM	20135	OH2	WAT	3205	-10.806	20.587	22.314	1.00	22.59
ATOM	20136	OH2	WAT	3206	25.446	8.006	4.362	1.00	22.71
ATOM	20137	OH2	WAT	3207	-1.437	-43.569	11.596	1.00	14.68
ATOM	20138	OH2	WAT	3208	6.165	17.099	16.294	1.00	19.35
ATOM	20139	OH2	WAT	3209	0.456	-5.728	18.027	1.00	16.11
ATOM	20140	OH2	WAT	3210	17.554	-15.937	28.233	1.00	15.55
ATOM	20141	OH2	WAT	3211	2.388	-14.201	39.957	1.00	16.30
ATOM	20142	OH2	WAT	3212	-8.445	-43.392	21.151	1.00	15.83
ATOM	20143	OH2	WAT	3213	-1.149	-2.138	11.071	1.00	16.20
ATOM	20144	OH2	WAT	3214	16.006	-18.966	9.491	1.00	22.11
ATOM	20145	OH2	WAT	3215	40.917	14.465	61.223	1.00	17.97
ATOM	20146	OH2	WAT	3216	20.418	-7.448	40.411	1.00	18.22
ATOM	20147	OH2	WAT	3217	7.210	6.558	-23.993	1.00	22.59
ATOM	20148	OH2	WAT	3218	13.270	-1.290	-5.622	1.00	17.55
ATOM	20149	OH2	WAT	3219	16.193	-6.804	65.086	1.00	23.17
ATOM	20150	OH2	WAT	3220	1.345	6.829	53.690	1.00	19.22
ATOM	20151	OH2	WAT	3221	-24.487	-28.861	12.302	1.00	24.58
ATOM	20152	OH2	WAT	3222	-5.861	6.465	53.062	1.00	22.85
ATOM	20153	OH2	WAT	3223	2.196	-17.385	9.566	1.00	14.82
ATOM	20154	OH2	WAT	3224	5.907	18.688	37.560	1.00	23.71
ATOM	20155	OH2	WAT	3225	9.404	-6.985	-17.364	1.00	18.51
ATOM	20156	OH2	WAT	3226	-19.508	18.345	-4.134	1.00	18.87
ATOM	20157	OH2	WAT	3227	43.927	19.766	59.453	1.00	22.41
ATOM	20158	OH2	WAT	3228	10.197	3.381	10.668	1.00	16.51
ATOM	20159	OH2	WAT	3229	-14.378	18.764	53.775	1.00	20.79
ATOM	20160	OH2	WAT	3230	-20.438	-16.179	61.040	1.00	22.89
ATOM	20161	OH2	WAT	3231	30.282	-36.634	32.910	1.00	15.84
ATOM	20162	OH2	WAT	3232	39.788	13.875	64.578	1.00	17.48
ATOM	20163	OH2	WAT	3233	-21.813	-14.345	7.149	1.00	19.96
ATOM	20164	OH2	WAT	3234	3.481	-16.263	23.755	1.00	24.36
ATOM	20165	OH2	WAT	3235	32.740	7.544	50.333	1.00	19.77
ATOM	20166	OH2	WAT	3236	-16.527	-40.590	22.042	1.00	15.97
ATOM	20167	OH2	WAT	3237	-20.321	-1.940	29.261	1.00	17.79
ATOM	20168	OH2	WAT	3238	6.910	-16.348	54.593	1.00	23.74
ATOM	20169	OH2	WAT	3239	32.211	-4.106	12.342	1.00	12.74
ATOM	20170	OH2	WAT	3240	6.833	-38.308	33.861	1.00	27.01
ATOM	20171	OH2	WAT	3241	-5.435	3.091	15.587	1.00	25.68
ATOM	20172	OH2	WAT	3242	5.162	-5.435	9.145	1.00	15.66
ATOM	20173	OH2	WAT	3243	-12.976	18.875	1.055	1.00	26.56
ATOM	20174	OH2	WAT	3244	4.941	-50.548	27.523	1.00	18.25
ATOM	20175	OH2	WAT	3245	23.502	4.496	17.712	1.00	21.76
ATOM	20176	OH2	WAT	3246	29.781	-8.409	-12.106	1.00	22.34
ATOM	20177	OH2	WAT	3247	16.179	20.627	27.934	1.00	17.27
ATOM	20178	OH2	WAT	3248	25.630	6.081	35.873	1.00	24.47
ATOM	20179	OH2	WAT	3249	19.075	2.823	8.867	1.00	17.88
ATOM	20180	OH2	WAT	3250	24.463	-1.978	55.349	1.00	19.50
ATOM	20181	OH2	WAT	3251	6.006	-7.737	8.134	1.00	18.83
ATOM	20182	OH2	WAT	3252	24.297	-22.682	41.765	1.00	22.36
ATOM	20183	OH2	WAT	3253	-14.877	8.810	15.278	1.00	19.04
ATOM	20184	OH2	WAT	3254	6.808	-2.819	49.732	1.00	18.14
ATOM	20185	OH2	WAT	3255	26.166	5.603	20.868	1.00	21.17
ATOM	20186	OH2	WAT	3256	4.305	-15.545	56.992	1.00	16.97
ATOM	20187	OH2	WAT	3257	13.421	-15.839	15.404	1.00	19.34
ATOM	20188	OH2	WAT	3258	-12.696	-19.398	26.900	1.00	26.15
ATOM	20189	OH2	WAT	3259	5.047	-18.352	55.566	1.00	20.95
ATOM	20190	OH2	WAT	3260	-21.140	-30.966	20.114	1.00	22.15
ATOM	20191	OH2	WAT	3261	-0.778	32.093	65.599	1.00	22.89
ATOM	20192	OH2	WAT	3262	-4.568	-12.190	8.019	1.00	19.08
ATOM	20193	OH2	WAT	3263	-9.797	1.121	-14.744	1.00	15.93
ATOM	20194	OH2	WAT	3264	-6.689	23.825	46.121	1.00	15.64
ATOM	20195	OH2	WAT	3265	14.061	12.604	42.176	1.00	31.75
ATOM	20196	OH2	WAT	3266	-0.527	-0.897	42.399	1.00	20.09
ATOM	20197	OH2	WAT	3267	-0.194	33.276	58.037	1.00	23.96
ATOM	20198	OH2	WAT	3268	24.901	-17.073	22.925	1.00	20.92
ATOM	20199	OH2	WAT	3269	41.330	-8.601	15.013	1.00	23.33
ATOM	20200	OH2	WAT	3270	4.620	-8.727	-6.543	1.00	24.77
ATOM	20201	OH2	WAT	3271	35.246	-17.451	41.068	1.00	18.93
ATOM	20202	OH2	WAT	3272	25.285	11.482	32.566	1.00	19.14

ATOM	20203	OH2	WAT	3273	41.753	-19.624	48.472	1.00	23.10
ATOM	20204	OH2	WAT	3274	4.615	0.859	46.531	1.00	16.54
ATOM	20205	OH2	WAT	3275	31.542	-15.777	28.303	1.00	20.38
ATOM	20206	OH2	WAT	3276	19.527	11.849	39.254	1.00	15.70
ATOM	20207	OH2	WAT	3277	33.147	-23.760	25.248	1.00	16.58
ATOM	20208	OH2	WAT	3278	-5.916	-49.095	13.770	1.00	29.58
ATOM	20209	OH2	WAT	3279	23.794	-15.430	33.966	1.00	21.14
ATOM	20210	OH2	WAT	3280	-14.122	0.241	-14.020	1.00	21.60
ATOM	20211	OH2	WAT	3281	-31.126	-7.465	48.968	1.00	18.37
ATOM	20212	OH2	WAT	3282	33.182	4.867	26.769	1.00	29.67
ATOM	20213	OH2	WAT	3283	24.781	8.897	32.613	1.00	23.60
ATOM	20214	OH2	WAT	3284	37.324	-32.782	27.936	1.00	20.55
ATOM	20215	OH2	WAT	3285	36.703	-2.932	24.810	1.00	20.31
ATOM	20216	OH2	WAT	3286	16.737	6.043	-10.203	1.00	14.77
ATOM	20217	OH2	WAT	3287	42.281	10.193	65.227	1.00	20.86
ATOM	20218	OH2	WAT	3288	-24.643	-24.852	6.883	1.00	22.27
ATOM	20219	OH2	WAT	3289	3.427	33.777	58.006	1.00	17.87
ATOM	20220	OH2	WAT	3290	26.392	2.408	17.399	1.00	19.04
ATOM	20221	OH2	WAT	3291	-18.654	-5.950	66.016	1.00	23.24
ATOM	20222	OH2	WAT	3292	-13.093	-15.210	22.791	1.00	20.23
ATOM	20223	OH2	WAT	3293	9.173	-6.311	51.088	1.00	24.64
ATOM	20224	OH2	WAT	3294	38.564	-37.037	23.715	1.00	17.22
ATOM	20225	OH2	WAT	3295	-23.611	-28.491	18.445	1.00	21.94
ATOM	20226	OH2	WAT	3296	43.474	-20.767	2.623	1.00	21.92
ATOM	20227	OH2	WAT	3297	5.370	-10.917	64.991	1.00	20.49
ATOM	20228	OH2	WAT	3298	21.104	12.701	14.311	1.00	20.74
ATOM	20229	OH2	WAT	3299	-8.121	27.589	65.671	1.00	30.46
ATOM	20230	OH2	WAT	3300	17.972	5.158	7.455	1.00	16.91
ATOM	20231	OH2	WAT	3301	10.494	-0.984	-3.411	1.00	21.18
ATOM	20232	OH2	WAT	3302	4.032	42.243	10.424	1.00	30.91
ATOM	20233	OH2	WAT	3303	24.441	-27.550	68.904	1.00	18.25
ATOM	20234	OH2	WAT	3304	6.219	21.783	14.079	1.00	25.97
ATOM	20235	OH2	WAT	3305	23.593	-1.831	13.125	1.00	19.74
ATOM	20236	OH2	WAT	3306	-17.736	1.565	54.302	1.00	19.29
ATOM	20237	OH2	WAT	3307	13.850	-2.899	-3.293	1.00	22.15
ATOM	20238	OH2	WAT	3308	34.332	-43.289	29.457	1.00	20.15
ATOM	20239	OH2	WAT	3309	-5.197	-6.814	1.773	1.00	19.55
ATOM	20240	OH2	WAT	3310	-12.090	18.072	36.228	1.00	19.58
ATOM	20241	OH2	WAT	3311	17.354	10.254	43.120	1.00	34.77
ATOM	20242	OH2	WAT	3312	-3.313	11.757	19.670	1.00	26.41
ATOM	20243	OH2	WAT	3313	8.528	-13.751	41.287	1.00	21.05
ATOM	20244	OH2	WAT	3314	32.008	-20.113	6.850	1.00	25.55
ATOM	20245	OH2	WAT	3315	13.281	16.160	15.117	1.00	24.88
ATOM	20246	OH2	WAT	3316	28.691	9.379	7.117	1.00	20.59
ATOM	20247	OH2	WAT	3317	23.789	-6.461	61.180	1.00	26.68
ATOM	20248	OH2	WAT	3318	1.515	36.096	58.072	1.00	18.91
ATOM	20249	OH2	WAT	3319	48.872	11.459	42.531	1.00	27.53
ATOM	20250	OH2	WAT	3320	5.225	-25.223	34.596	1.00	14.92
ATOM	20251	OH2	WAT	3321	37.106	-22.432	3.847	1.00	17.63
ATOM	20252	OH2	WAT	3322	-9.345	-4.853	27.183	1.00	24.67
ATOM	20253	OH2	WAT	3323	34.721	-21.213	36.495	1.00	21.39
ATOM	20254	OH2	WAT	3324	32.652	-14.927	-13.607	1.00	25.32
ATOM	20255	OH2	WAT	3325	-13.339	21.021	-8.922	1.00	22.80
ATOM	20256	OH2	WAT	3326	-3.296	-1.036	16.162	1.00	24.45
ATOM	20257	OH2	WAT	3327	9.522	-32.401	16.459	1.00	23.66
ATOM	20258	OH2	WAT	3328	18.151	15.055	63.606	1.00	19.05
ATOM	20259	OH2	WAT	3329	6.249	-47.125	10.644	1.00	21.08
ATOM	20260	OH2	WAT	3330	-9.192	11.917	33.840	1.00	20.79
ATOM	20261	OH2	WAT	3331	4.631	-19.143	15.726	1.00	20.59
ATOM	20262	OH2	WAT	3332	18.911	18.491	41.568	1.00	24.07
ATOM	20263	OH2	WAT	3333	-17.813	22.262	45.797	1.00	26.58
ATOM	20264	OH2	WAT	3334	10.713	-28.271	37.324	1.00	25.49
ATOM	20265	OH2	WAT	3335	29.350	-5.186	2.361	1.00	31.20
ATOM	20266	OH2	WAT	3336	7.196	-5.221	46.352	1.00	22.56
ATOM	20267	OH2	WAT	3337	54.614	10.503	48.370	1.00	21.87
ATOM	20268	OH2	WAT	3338	12.377	-24.993	37.751	1.00	21.71
ATOM	20269	OH2	WAT	3339	16.863	5.321	48.931	1.00	23.14
ATOM	20270	OH2	WAT	3340	-8.724	19.145	20.888	1.00	19.11
ATOM	20271	OH2	WAT	3341	13.381	-19.714	-4.203	1.00	16.96
ATOM	20272	OH2	WAT	3342	11.141	15.500	-6.398	1.00	25.52
ATOM	20273	OH2	WAT	3343	-0.771	12.885	18.816	1.00	31.48
ATOM	20274	OH2	WAT	3344	-16.965	4.474	14.900	1.00	22.48
ATOM	20275	OH2	WAT	3345	19.464	21.926	68.546	1.00	24.61
ATOM	20276	OH2	WAT	3346	-8.665	-0.567	10.532	1.00	17.50
ATOM	20277	OH2	WAT	3347	19.548	-3.441	41.810	1.00	18.14
ATOM	20278	OH2	WAT	3348	3.984	5.093	41.179	1.00	19.65
ATOM	20279	OH2	WAT	3349	34.101	4.713	6.355	1.00	26.04



ATOM	20280	OH2	WAT	3350	9.510	-54.905	26.309	1.00	22.92
ATOM	20281	OH2	WAT	3351	2.738	2.375	54.788	1.00	21.38
ATOM	20282	OH2	WAT	3352	38.200	-3.877	39.235	1.00	17.67
ATOM	20283	OH2	WAT	3353	10.728	14.126	13.818	1.00	21.22
ATOM	20284	OH2	WAT	3354	-1.810	-3.501	-10.761	1.00	32.21
ATOM	20285	OH2	WAT	3355	23.131	20.084	52.484	1.00	21.25
ATOM	20286	OH2	WAT	3356	13.275	37.450	61.583	1.00	23.72
ATOM	20287	OH2	WAT	3357	14.902	-27.854	39.228	1.00	17.88
ATOM	20288	OH2	WAT	3358	17.196	0.708	-19.731	1.00	22.56
ATOM	20289	OH2	WAT	3359	12.894	27.941	72.812	1.00	22.10
ATOM	20290	OH2	WAT	3360	51.803	18.337	55.429	1.00	23.28
ATOM	20291	OH2	WAT	3361	23.951	22.297	38.321	1.00	19.39
ATOM	20292	OH2	WAT	3362	28.231	10.502	25.782	1.00	29.33
ATOM	20293	OH2	WAT	3363	-19.632	-10.100	40.923	1.00	24.00
ATOM	20294	OH2	WAT	3364	0.381	-18.881	70.964	1.00	24.24
ATOM	20295	OH2	WAT	3365	41.050	-6.012	15.791	1.00	25.68
ATOM	20296	OH2	WAT	3366	25.036	-21.624	17.420	1.00	19.61
ATOM	20297	OH2	WAT	3367	20.757	-12.469	18.162	1.00	19.66
ATOM	20298	OH2	WAT	3368	25.031	-39.595	34.156	1.00	17.92
ATOM	20299	OH2	WAT	3369	-29.570	-5.102	46.308	1.00	22.63
ATOM	20300	OH2	WAT	3370	-4.963	11.491	58.938	1.00	26.60
ATOM	20301	OH2	WAT	3371	-1.293	15.137	-16.952	1.00	22.14
ATOM	20302	OH2	WAT	3372	7.371	10.814	64.052	1.00	22.29
ATOM	20303	OH2	WAT	3373	16.271	-27.044	44.698	1.00	21.59
ATOM	20304	OH2	WAT	3374	-9.825	-19.028	36.378	1.00	15.87
ATOM	20305	OH2	WAT	3375	-24.137	-9.482	10.270	1.00	23.02
ATOM	20306	OH2	WAT	3376	-13.705	-13.121	62.268	1.00	20.24
ATOM	20307	OH2	WAT	3377	-11.384	0.851	7.106	1.00	24.50
ATOM	20308	OH2	WAT	3378	41.978	-12.471	14.199	1.00	23.08
ATOM	20309	OH2	WAT	3379	-3.147	-14.517	6.808	1.00	23.32
ATOM	20310	OH2	WAT	3380	-0.728	-27.767	19.798	1.00	21.29
ATOM	20311	OH2	WAT	3381	-0.354	-4.894	-20.116	1.00	24.42
ATOM	20312	OH2	WAT	3382	-21.061	-11.267	68.198	1.00	30.13
ATOM	20313	OH2	WAT	3383	-14.706	-12.293	29.188	1.00	20.50
ATOM	20314	OH2	WAT	3384	43.391	2.510	23.335	1.00	25.76
ATOM	20315	OH2	WAT	3385	3.515	39.540	67.856	1.00	26.52
ATOM	20316	OH2	WAT	3386	-1.928	8.812	-25.826	1.00	33.73
ATOM	20317	OH2	WAT	3387	50.385	2.215	42.463	1.00	29.09
ATOM	20318	OH2	WAT	3388	17.087	16.878	20.716	1.00	37.71
ATOM	20319	OH2	WAT	3389	8.298	15.973	7.123	1.00	32.77
ATOM	20320	OH2	WAT	3390	34.661	-21.425	25.109	1.00	19.60
ATOM	20321	OH2	WAT	3391	19.966	-51.330	15.176	1.00	26.16
ATOM	20322	OH2	WAT	3392	-9.059	-4.483	51.040	1.00	20.52
ATOM	20323	OH2	WAT	3393	25.707	-32.629	33.317	1.00	17.81
ATOM	20324	OH2	WAT	3394	5.534	19.085	5.472	1.00	33.14
ATOM	20325	OH2	WAT	3395	14.622	19.551	55.214	1.00	19.96
ATOM	20326	OH2	WAT	3396	24.959	-14.087	20.835	1.00	28.72
ATOM	20327	OH2	WAT	3397	13.290	17.903	38.782	1.00	20.42
ATOM	20328	OH2	WAT	3398	-5.862	-4.263	56.954	1.00	32.48
ATOM	20329	OH2	WAT	3399	6.562	15.994	19.058	1.00	25.19
ATOM	20330	OH2	WAT	3400	14.970	3.846	-18.083	1.00	19.32
ATOM	20331	OH2	WAT	3401	-7.124	15.004	-19.783	1.00	24.92
ATOM	20332	OH2	WAT	3402	34.119	-8.981	-11.775	1.00	21.64
ATOM	20333	OH2	WAT	3403	5.848	15.691	37.447	1.00	21.96
ATOM	20334	OH2	WAT	3404	-4.384	5.307	38.927	1.00	28.93
ATOM	20335	OH2	WAT	3405	-8.462	19.489	-3.041	1.00	23.36
ATOM	20336	OH2	WAT	3406	21.504	-14.699	19.950	1.00	29.34
ATOM	20337	OH2	WAT	3407	-21.088	4.227	39.634	1.00	22.61
ATOM	20338	OH2	WAT	3408	-5.619	-10.651	5.927	1.00	24.23
ATOM	20339	OH2	WAT	3409	52.693	1.167	48.206	1.00	21.20
ATOM	20340	OH2	WAT	3410	-16.221	-9.667	65.559	1.00	20.52
ATOM	20341	OH2	WAT	3411	-25.467	-9.423	43.328	1.00	24.48
ATOM	20342	OH2	WAT	3412	-20.988	4.741	56.477	1.00	26.96
ATOM	20343	OH2	WAT	3413	19.198	18.956	55.185	1.00	23.07
ATOM	20344	OH2	WAT	3414	-24.253	-31.934	12.026	1.00	26.24
ATOM	20345	OH2	WAT	3415	12.072	18.774	35.664	1.00	23.52
ATOM	20346	OH2	WAT	3416	-12.454	3.743	32.390	1.00	17.67
ATOM	20347	OH2	WAT	3417	-18.447	6.868	40.520	1.00	24.96
ATOM	20348	OH2	WAT	3418	6.103	-8.025	44.128	1.00	27.53
ATOM	20349	OH2	WAT	3419	-15.120	-36.912	4.961	1.00	24.66
ATOM	20350	OH2	WAT	3420	18.742	5.029	46.950	1.00	28.56
ATOM	20351	OH2	WAT	3421	14.049	-14.727	75.131	1.00	22.18
ATOM	20352	OH2	WAT	3422	25.532	-35.284	59.886	1.00	25.87
ATOM	20353	OH2	WAT	3423	14.242	4.864	4.801	1.00	26.11
ATOM	20354	OH2	WAT	3424	2.505	-8.983	62.076	1.00	23.05
ATOM	20355	OH2	WAT	3425	6.236	16.265	5.305	1.00	24.87
ATOM	20356	OH2	WAT	3426	7.628	-26.541	40.424	1.00	27.19

ATOM	20357	OH2	WAT	3427	10.084	5.888	54.362	1.00	18.70
ATOM	20358	OH2	WAT	3428	-27.669	-4.824	17.585	1.00	22.63
ATOM	20359	OH2	WAT	3429	16.131	-57.526	20.651	1.00	27.80
ATOM	20360	OH2	WAT	3430	33.810	-10.761	21.863	1.00	20.66
ATOM	20361	OH2	WAT	3431	38.906	-5.089	-12.711	1.00	32.66
ATOM	20362	OH2	WAT	3432	3.036	6.220	15.329	1.00	21.16
ATOM	20363	OH2	WAT	3433	-5.338	0.253	17.916	1.00	28.50
ATOM	20364	OH2	WAT	3434	-6.431	25.378	65.275	1.00	28.77
ATOM	20365	OH2	WAT	3435	30.183	-20.851	68.133	1.00	27.16
ATOM	20366	OH2	WAT	3436	43.659	-22.333	-1.106	1.00	24.34
ATOM	20367	OH2	WAT	3437	30.093	19.087	34.416	1.00	35.14
ATOM	20368	OH2	WAT	3438	-30.035	-9.535	13.285	1.00	30.59
ATOM	20369	OH2	WAT	3439	-17.340	-10.617	62.281	1.00	21.35
ATOM	20370	OH2	WAT	3440	4.191	-8.621	64.549	1.00	25.99
ATOM	20371	OH2	WAT	3441	26.000	-4.755	17.793	1.00	27.01
ATOM	20372	OH2	WAT	3442	-7.412	21.856	-20.059	1.00	21.29
ATOM	20373	OH2	WAT	3443	-7.879	17.002	4.254	1.00	26.02
ATOM	20374	OH2	WAT	3444	-9.087	-0.369	8.012	1.00	22.06
ATOM	20375	OH2	WAT	3445	-23.952	1.102	-9.034	1.00	28.67
ATOM	20376	OH2	WAT	3446	-10.640	18.228	58.792	1.00	24.48
ATOM	20377	OH2	WAT	3447	-28.943	1.338	47.872	1.00	24.52
ATOM	20378	OH2	WAT	3448	6.713	-26.895	47.186	1.00	25.17
ATOM	20379	OH2	WAT	3449	-19.226	4.149	7.394	1.00	20.22
ATOM	20380	OH2	WAT	3450	16.180	-54.471	16.613	1.00	19.97
ATOM	20381	OH2	WAT	3451	7.659	-6.722	-19.699	1.00	24.66
ATOM	20382	OH2	WAT	3452	37.335	-8.150	16.691	1.00	18.64
ATOM	20383	OH2	WAT	3453	20.745	12.571	18.819	1.00	24.11
ATOM	20384	OH2	WAT	3454	-17.203	-1.956	26.377	1.00	19.51
ATOM	20385	OH2	WAT	3455	15.288	-15.336	31.913	1.00	18.81
ATOM	20386	OH2	WAT	3456	8.707	-48.754	10.866	1.00	27.33
ATOM	20387	OH2	WAT	3457	15.343	19.454	38.824	1.00	23.12
ATOM	20388	OH2	WAT	3458	20.577	-15.545	35.392	1.00	27.66
ATOM	20389	OH2	WAT	3459	41.003	1.947	26.461	1.00	21.44
ATOM	20390	OH2	WAT	3460	-19.312	17.129	-0.087	1.00	24.24
ATOM	20391	OH2	WAT	3461	41.814	-22.072	59.142	1.00	29.16
ATOM	20392	OH2	WAT	3462	-23.822	-2.922	29.368	1.00	26.46
ATOM	20393	OH2	WAT	3463	-19.777	-17.397	63.713	1.00	22.86
ATOM	20394	OH2	WAT	3464	9.958	49.419	21.653	1.00	31.91
ATOM	20395	OH2	WAT	3465	-14.397	0.840	6.887	1.00	19.97
ATOM	20396	OH2	WAT	3466	41.165	1.509	54.227	1.00	20.56
ATOM	20397	OH2	WAT	3467	34.145	-48.601	22.561	1.00	23.68
ATOM	20398	OH2	WAT	3468	14.133	-2.489	-25.544	1.00	32.11
ATOM	20399	OH2	WAT	3469	-1.808	-41.623	29.404	1.00	23.41
ATOM	20400	OH2	WAT	3470	37.724	-31.627	30.385	1.00	31.57
ATOM	20401	OH2	WAT	3471	14.985	-55.814	12.662	1.00	21.80
ATOM	20402	OH2	WAT	3472	24.908	-25.348	43.709	1.00	20.59
ATOM	20403	OH2	WAT	3473	25.698	-49.669	27.512	1.00	22.17
ATOM	20404	OH2	WAT	3474	17.811	-17.127	39.808	1.00	17.19
ATOM	20405	OH2	WAT	3475	21.718	14.837	7.814	1.00	24.90
ATOM	20406	OH2	WAT	3476	22.441	-3.352	58.930	1.00	24.81
ATOM	20407	OH2	WAT	3477	24.448	30.315	43.032	1.00	26.95
ATOM	20408	OH2	WAT	3478	44.123	12.038	19.936	1.00	31.08
ATOM	20409	OH2	WAT	3479	20.286	-30.479	61.570	1.00	20.29
ATOM	20410	OH2	WAT	3480	38.326	-19.073	41.512	1.00	22.18
ATOM	20411	OH2	WAT	3481	-14.815	27.992	61.688	1.00	40.66
ATOM	20412	OH2	WAT	3482	34.625	-26.878	39.822	1.00	33.03
ATOM	20413	OH2	WAT	3483	-3.096	35.761	7.054	1.00	38.60
ATOM	20414	OH2	WAT	3484	9.956	-32.525	39.001	1.00	30.29
ATOM	20415	OH2	WAT	3485	4.975	-31.893	10.831	1.00	21.28
ATOM	20416	OH2	WAT	3486	17.184	-13.200	-22.519	1.00	28.57
ATOM	20417	OH2	WAT	3487	7.504	28.777	40.806	1.00	31.23
ATOM	20418	OH2	WAT	3488	-9.436	22.775	21.943	1.00	18.82
ATOM	20419	OH2	WAT	3489	29.474	3.455	1.487	1.00	32.63
ATOM	20420	OH2	WAT	3490	0.602	20.241	7.100	1.00	22.23
ATOM	20421	OH2	WAT	3491	9.850	-7.937	5.724	1.00	28.64
ATOM	20422	OH2	WAT	3492	32.489	-21.034	-10.996	1.00	30.63
ATOM	20423	OH2	WAT	3493	7.930	-16.894	18.890	1.00	20.22
ATOM	20424	OH2	WAT	3494	-4.506	-24.196	3.635	1.00	18.30
ATOM	20425	OH2	WAT	3495	10.221	-19.687	36.867	1.00	24.52
ATOM	20426	OH2	WAT	3496	-1.557	19.729	17.609	1.00	19.45
ATOM	20427	OH2	WAT	3497	-29.812	-4.805	64.317	1.00	19.66
ATOM	20428	OH2	WAT	3498	-26.364	8.727	-2.492	1.00	23.78
ATOM	20429	OH2	WAT	3499	3.181	-15.486	54.400	1.00	26.52
ATOM	20430	OH2	WAT	3500	-4.211	28.797	70.359	1.00	29.23
ATOM	20431	OH2	WAT	3501	23.091	-1.819	-22.141	1.00	27.87
ATOM	20432	OH2	WAT	3502	53.226	7.462	46.155	1.00	28.40
ATOM	20433	OH2	WAT	3503	47.327	21.844	54.130	1.00	25.03

ATOM	20434	OH2	WAT	3504	-7.836	15.601	26.509	1.00	22.64
ATOM	20435	OH2	WAT	3505	4.797	-16.467	-3.276	1.00	30.07
ATOM	20436	OH2	WAT	3506	31.664	-6.522	-13.027	1.00	22.55
ATOM	20437	OH2	WAT	3507	21.645	31.075	60.847	1.00	17.96
ATOM	20438	OH2	WAT	3508	14.391	8.824	50.006	1.00	23.64
ATOM	20439	OH2	WAT	3509	-17.132	4.640	49.766	1.00	23.89
ATOM	20440	OH2	WAT	3510	6.062	-26.464	52.738	1.00	30.15
ATOM	20441	OH2	WAT	3511	5.200	26.208	12.471	1.00	34.21
ATOM	20442	OH2	WAT	3512	16.071	0.370	-25.723	1.00	33.79
ATOM	20443	OH2	WAT	3513	32.797	-0.260	48.448	1.00	20.41
ATOM	20444	OH2	WAT	3514	-16.216	1.768	0.259	1.00	23.90
ATOM	20445	OH2	WAT	3515	-5.097	2.007	1.772	1.00	19.02
ATOM	20446	OH2	WAT	3516	-14.399	-28.368	53.744	1.00	43.61
ATOM	20447	OH2	WAT	3517	1.256	-15.041	9.961	1.00	24.99
ATOM	20448	OH2	WAT	3518	29.943	12.201	27.604	1.00	32.31
ATOM	20449	OH2	WAT	3519	20.357	22.467	26.147	1.00	24.34
ATOM	20450	OH2	WAT	3520	11.136	-14.234	75.415	1.00	25.64
ATOM	20451	OH2	WAT	3521	38.180	-15.356	56.012	1.00	22.35
ATOM	20452	OH2	WAT	3522	24.649	-24.017	2.168	1.00	29.47
ATOM	20453	OH2	WAT	3523	36.842	8.360	26.719	1.00	24.17
ATOM	20454	OH2	WAT	3524	-30.258	-8.726	23.554	1.00	27.51
ATOM	20455	OH2	WAT	3525	17.453	-26.604	11.072	1.00	24.69
ATOM	20456	OH2	WAT	3526	-0.804	-51.986	25.853	1.00	26.03
ATOM	20457	OH2	WAT	3527	-9.459	-21.976	39.845	1.00	29.39
ATOM	20458	OH2	WAT	3528	29.511	-4.884	16.485	1.00	27.39
ATOM	20459	OH2	WAT	3529	14.158	-1.502	9.556	1.00	35.97
ATOM	20460	OH2	WAT	3530	-14.703	20.404	38.717	1.00	28.71
ATOM	20461	OH2	WAT	3531	-7.105	1.156	-13.754	1.00	18.83
ATOM	20462	OH2	WAT	3532	21.848	-21.505	48.844	1.00	27.48
ATOM	20463	OH2	WAT	3533	36.224	-2.915	32.963	1.00	27.24
ATOM	20464	OH2	WAT	3534	23.251	23.615	68.702	1.00	18.75
ATOM	20465	OH2	WAT	3535	-13.136	-41.931	8.140	1.00	22.80
ATOM	20466	OH2	WAT	3536	-3.662	29.839	18.235	1.00	22.35
ATOM	20467	OH2	WAT	3537	42.444	-25.120	50.779	1.00	30.29
ATOM	20468	OH2	WAT	3538	30.684	13.800	60.308	1.00	26.04
ATOM	20469	OH2	WAT	3539	-1.141	19.587	14.828	1.00	19.25
ATOM	20470	OH2	WAT	3540	-5.566	-28.227	31.527	1.00	31.13
ATOM	20471	OH2	WAT	3541	37.483	-2.016	49.590	1.00	23.36
ATOM	20472	OH2	WAT	3542	-4.059	-1.055	-0.721	1.00	31.71
ATOM	20473	OH2	WAT	3543	43.257	-3.965	48.382	1.00	24.84
ATOM	20474	OH2	WAT	3544	16.003	15.425	17.335	1.00	27.51
ATOM	20475	OH2	WAT	3545	-12.199	21.137	35.789	1.00	24.22
ATOM	20476	OH2	WAT	3546	43.270	11.938	40.176	1.00	30.17
ATOM	20477	OH2	WAT	3547	8.127	-56.905	24.805	1.00	19.10
ATOM	20478	OH2	WAT	3548	20.613	33.154	62.310	1.00	30.19
ATOM	20479	OH2	WAT	3549	25.111	15.458	30.152	1.00	22.79
ATOM	20480	OH2	WAT	3550	45.070	2.400	26.630	1.00	30.97
ATOM	20481	OH2	WAT	3551	2.048	-27.128	63.747	1.00	22.51
ATOM	20482	OH2	WAT	3552	-5.000	1.632	-22.794	1.00	28.73
ATOM	20483	OH2	WAT	3553	40.494	-30.756	61.314	1.00	31.19
ATOM	20484	OH2	WAT	3554	21.635	29.643	51.600	1.00	24.47
ATOM	20485	OH2	WAT	3555	20.234	18.268	52.367	1.00	25.61
ATOM	20486	OH2	WAT	3556	6.420	8.840	15.848	1.00	17.10
ATOM	20487	OH2	WAT	3557	-23.960	-31.184	20.786	1.00	23.74
ATOM	20488	OH2	WAT	3558	3.694	-28.168	52.744	1.00	28.76
ATOM	20489	OH2	WAT	3559	-0.279	24.388	69.202	1.00	29.63
ATOM	20490	OH2	WAT	3560	-13.233	-14.029	5.054	1.00	30.16
ATOM	20491	OH2	WAT	3561	-11.730	2.751	48.422	1.00	23.44
ATOM	20492	OH2	WAT	3562	25.841	-1.986	41.378	1.00	30.71
ATOM	20493	OH2	WAT	3563	-19.840	9.517	11.289	1.00	30.98
ATOM	20494	OH2	WAT	3564	35.901	-16.807	38.350	1.00	23.60
ATOM	20495	OH2	WAT	3565	5.279	14.511	23.101	1.00	32.53
ATOM	20496	OH2	WAT	3566	-12.669	24.543	21.588	1.00	27.87
ATOM	20497	OH2	WAT	3567	2.422	29.279	73.739	1.00	26.24
ATOM	20498	OH2	WAT	3568	24.933	2.790	38.157	1.00	31.71
ATOM	20499	OH2	WAT	3569	-6.126	31.127	44.730	1.00	24.66
ATOM	20500	OH2	WAT	3570	12.732	-49.375	29.754	1.00	24.42
ATOM	20501	OH2	WAT	3571	54.364	-4.263	57.668	1.00	28.75
ATOM	20502	OH2	WAT	3572	8.524	5.432	51.993	1.00	29.48
ATOM	20503	OH2	WAT	3573	2.845	-17.320	27.601	1.00	23.94
ATOM	20504	OH2	WAT	3574	-16.502	21.486	-18.054	1.00	27.10
ATOM	20505	OH2	WAT	3575	43.324	21.268	62.048	1.00	21.29
ATOM	20506	OH2	WAT	3576	-13.809	-17.874	23.626	1.00	21.22
ATOM	20507	OH2	WAT	3577	6.416	-10.418	67.564	1.00	25.45
ATOM	20508	OH2	WAT	3578	23.420	-23.177	10.075	1.00	31.50
ATOM	20509	OH2	WAT	3579	18.146	5.699	42.569	1.00	27.60
ATOM	20510	OH2	WAT	3580	10.508	14.399	39.740	1.00	21.36

ATOM	20511	OH2	WAT	3581	0.784	-6.629	15.625	1.00	15.08
ATOM	20512	OH2	WAT	3582	5.497	-17.436	23.138	1.00	25.09
ATOM	20513	OH2	WAT	3583	7.991	6.071	43.749	1.00	15.60
ATOM	20514	OH2	WAT	3584	3.189	-11.871	38.573	1.00	16.47
ATOM	20515	OH2	WAT	3585	-0.207	-12.212	31.665	1.00	17.46
ATOM	20516	OH2	WAT	3586	13.002	-15.561	35.959	1.00	21.13
ATOM	20517	OH2	WAT	3587	20.589	15.736	21.973	1.00	26.75
ATOM	20518	OH2	WAT	3588	21.090	3.770	13.740	1.00	22.84
ATOM	20519	OH2	WAT	3589	9.607	17.572	31.827	1.00	19.08
ATOM	20520	OH2	WAT	3590	0.276	-14.520	35.798	1.00	20.57
ATOM	20521	OH2	WAT	3591	-13.859	19.020	-13.607	1.00	20.14
ATOM	20522	OH2	WAT	3592	22.420	11.927	35.726	1.00	18.41
ATOM	20523	OH2	WAT	3593	-3.566	-2.525	-6.831	1.00	34.12
ATOM	20524	OH2	WAT	3594	24.320	2.280	42.362	1.00	24.09
ATOM	20525	OH2	WAT	3595	19.088	0.614	44.019	1.00	22.35
ATOM	20526	OH2	WAT	3596	15.248	1.171	-17.886	1.00	22.97
ATOM	20527	OH2	WAT	3597	24.372	9.943	24.127	1.00	21.06
ATOM	20528	OH2	WAT	3598	16.764	-1.795	47.475	1.00	21.98
ATOM	20529	OH2	WAT	3599	0.414	-0.352	12.854	1.00	18.76
ATOM	20530	OH2	WAT	3600	-4.201	-10.546	27.179	1.00	23.37
ATOM	20531	OH2	WAT	3601	6.884	-2.275	45.268	1.00	28.10
ATOM	20532	OH2	WAT	3602	23.685	15.179	34.059	1.00	22.99
ATOM	20533	OH2	WAT	3603	2.551	-10.373	13.582	1.00	21.06
ATOM	20534	OH2	WAT	3604	21.695	8.786	16.503	1.00	23.43
ATOM	20535	OH2	WAT	3605	12.902	6.151	48.325	1.00	21.73
ATOM	20536	OH2	WAT	3606	9.189	5.244	48.426	1.00	21.63
ATOM	20537	OH2	WAT	3607	2.378	-10.193	17.669	1.00	16.25
ATOM	20538	OH2	WAT	3608	4.820	-14.212	23.885	1.00	30.32
ATOM	20539	OH2	WAT	3609	42.612	26.598	65.519	1.00	33.56
ATOM	20540	OH2	WAT	3610	12.232	-7.077	44.497	1.00	15.58
ATOM	20541	OH2	WAT	3611	11.183	-17.225	30.756	1.00	22.33
ATOM	20542	OH2	WAT	3612	34.209	-6.592	-13.887	1.00	24.62
ATOM	20543	OH2	WAT	3613	6.463	24.230	7.734	1.00	20.77
ATOM	20544	OH2	WAT	3614	33.223	-2.006	8.282	1.00	23.63
ATOM	20545	OH2	WAT	3615	-11.992	-21.341	31.338	1.00	21.59
ATOM	20546	OH2	WAT	3616	20.404	-27.602	62.377	1.00	21.88
ATOM	20547	OH2	WAT	3617	10.020	-10.313	43.379	1.00	30.16
ATOM	20548	OH2	WAT	3618	10.356	-15.159	17.815	1.00	21.94
ATOM	20549	OH2	WAT	3619	1.389	-11.017	36.934	1.00	20.03
ATOM	20550	OH2	WAT	3620	4.363	-14.468	52.055	1.00	24.43
ATOM	20551	OH2	WAT	3621	27.484	2.764	55.962	1.00	21.15
ATOM	20552	OH2	WAT	3622	24.726	-24.186	16.875	1.00	24.05
ATOM	20553	OH2	WAT	3623	0.014	-20.733	40.658	1.00	16.17
ATOM	20554	OH2	WAT	3624	2.725	4.728	52.388	1.00	26.67
ATOM	20555	OH2	WAT	3625	9.746	-14.612	38.887	1.00	21.86
ATOM	20556	OH2	WAT	3626	-4.757	-1.899	1.970	1.00	35.13
ATOM	20557	OH2	WAT	3627	16.835	4.432	45.116	1.00	18.72
ATOM	20558	OH2	WAT	3628	12.251	-47.696	7.896	1.00	22.73
ATOM	20559	OH2	WAT	3629	39.019	-10.307	16.860	1.00	20.92
ATOM	20560	OH2	WAT	3630	-15.949	-40.710	24.697	1.00	22.11
ATOM	20561	OH2	WAT	3631	25.811	-15.143	32.335	1.00	27.41
ATOM	20562	OH2	WAT	3632	15.761	-3.942	44.388	1.00	18.59
ATOM	20563	OH2	WAT	3633	31.978	-22.985	68.623	1.00	27.31
ATOM	20564	OH2	WAT	3634	-26.509	-0.176	42.412	1.00	18.54
ATOM	20565	OH2	WAT	3635	-15.520	-42.723	20.234	1.00	26.20
ATOM	20566	OH2	WAT	3636	12.167	-11.989	10.440	1.00	19.28
ATOM	20567	OH2	WAT	3637	-4.154	-47.994	12.332	1.00	35.26
ATOM	20568	OH2	WAT	3638	-1.615	3.195	59.259	1.00	25.77
ATOM	20569	OH2	WAT	3639	-9.493	-3.891	48.064	1.00	28.70
ATOM	20570	OH2	WAT	3640	16.898	8.348	-11.925	1.00	34.50
ATOM	20571	OH2	WAT	3641	32.002	-14.281	-16.376	1.00	28.21
ATOM	20572	OH2	WAT	3642	-2.196	-11.144	8.403	1.00	24.46
ATOM	20573	OH2	WAT	3643	29.916	22.387	32.574	1.00	37.43
ATOM	20574	OH2	WAT	3644	18.608	21.247	53.393	1.00	17.98
ATOM	20575	OH2	WAT	3645	38.976	-31.818	26.231	1.00	30.85
ATOM	20576	OH2	WAT	3646	20.552	-7.819	18.900	1.00	25.27
ATOM	20577	OH2	WAT	3647	12.060	9.642	9.127	1.00	22.18
ATOM	20578	OH2	WAT	3648	-31.694	-12.599	11.058	1.00	34.99
ATOM	20579	OH2	WAT	3649	37.537	-7.544	19.487	1.00	26.06
ATOM	20580	OH2	WAT	3650	0.189	-29.389	54.461	1.00	23.97
ATOM	20581	OH2	WAT	3651	-5.852	-18.327	36.510	1.00	26.63
ATOM	20582	OH2	WAT	3652	14.864	-9.336	13.735	1.00	20.83
ATOM	20583	OH2	WAT	3653	-12.948	3.519	-18.993	1.00	25.64
ATOM	20584	OH2	WAT	3654	-12.613	2.553	24.159	1.00	22.97
ATOM	20585	OH2	WAT	3655	25.889	-19.104	-21.194	1.00	24.77
ATOM	20586	OH2	WAT	3656	31.173	-1.987	20.477	1.00	24.59
ATOM	20587	OH2	WAT	3657	40.085	-39.316	22.789	1.00	28.48

ATOM	20588	OH2	WAT	3658	3.870	-32.022	8.417	1.00	26.65
ATOM	20589	OH2	WAT	3659	18.544	-28.551	16.087	1.00	34.40
ATOM	20590	OH2	WAT	3660	-6.861	-27.077	47.127	1.00	22.70
ATOM	20591	OH2	WAT	3661	13.344	-12.961	12.757	1.00	21.21
ATOM	20592	OH2	WAT	3662	23.924	13.058	30.417	1.00	26.23
ATOM	20593	OH2	WAT	3663	-16.463	0.666	27.530	1.00	23.58
ATOM	20594	OH2	WAT	3664	29.982	-28.850	48.332	1.00	25.57
ATOM	20595	OH2	WAT	3665	-17.510	7.033	13.800	1.00	22.45
ATOM	20596	OH2	WAT	3666	1.881	-15.322	29.876	1.00	24.08
ATOM	20597	OH2	WAT	3667	6.507	-5.396	11.525	1.00	29.49
ATOM	20598	OH2	WAT	3668	46.905	1.491	23.229	1.00	29.41
ATOM	20599	OH2	WAT	3669	-32.090	-8.170	19.323	1.00	30.01
ATOM	20600	OH2	WAT	3670	22.927	-19.385	47.561	1.00	22.37
ATOM	20601	OH2	WAT	3671	-22.132	17.236	0.786	1.00	28.38
ATOM	20602	OH2	WAT	3672	33.600	-44.658	11.611	1.00	34.36
ATOM	20603	OH2	WAT	3673	-13.806	7.350	36.529	1.00	29.31
ATOM	20604	OH2	WAT	3674	-27.433	-25.257	7.569	1.00	36.53
ATOM	20605	OH2	WAT	3675	-8.731	-1.580	30.817	1.00	29.08
ATOM	20606	OH2	WAT	3676	20.432	-3.056	56.541	1.00	26.44
ATOM	20607	OH2	WAT	3677	3.370	-13.090	13.599	1.00	17.38
ATOM	20608	OH2	WAT	3678	8.012	-34.825	12.677	1.00	31.51
ATOM	20609	OH2	WAT	3679	1.072	-19.415	5.239	1.00	20.20
ATOM	20610	OH2	WAT	3680	21.321	8.443	12.592	1.00	22.90
ATOM	20611	OH2	WAT	3681	52.644	0.777	61.381	1.00	35.77
ATOM	20612	OH2	WAT	3682	-3.097	-41.815	7.665	1.00	31.57
ATOM	20613	OH2	WAT	3683	20.159	-13.750	38.154	1.00	29.71
ATOM	20614	OH2	WAT	3684	-9.685	15.081	52.281	1.00	25.91
ATOM	20615	OH2	WAT	3685	28.135	20.650	0.860	1.00	27.21
ATOM	20616	OH2	WAT	3686	39.001	-41.238	18.806	1.00	26.62
ATOM	20617	OH2	WAT	3687	40.023	-7.002	42.151	1.00	26.60
ATOM	20618	OH2	WAT	3688	-17.015	2.383	5.482	1.00	22.76
ATOM	20619	OH2	WAT	3689	31.736	-26.387	15.172	1.00	27.64
ATOM	20620	OH2	WAT	3690	37.471	-8.993	-17.582	1.00	30.40
ATOM	20621	OH2	WAT	3691	10.812	10.675	11.247	1.00	23.49
ATOM	20622	OH2	WAT	3692	36.504	-25.533	25.441	1.00	23.11
ATOM	20623	OH2	WAT	3693	22.254	-32.457	61.678	1.00	26.40
ATOM	20624	OH2	WAT	3694	11.931	-14.704	7.800	1.00	21.35
ATOM	20625	OH2	WAT	3695	-23.681	-14.788	45.643	1.00	24.78
ATOM	20626	OH2	WAT	3696	7.182	-51.466	28.627	1.00	25.44
ATOM	20627	OH2	WAT	3697	-22.958	-2.211	23.235	1.00	26.83
ATOM	20628	OH2	WAT	3698	32.975	-23.395	-0.121	1.00	22.51
ATOM	20629	OH2	WAT	3699	-4.858	3.626	3.892	1.00	28.24
ATOM	20630	OH2	WAT	3700	-25.802	-17.472	57.336	1.00	24.02
ATOM	20631	OH2	WAT	3701	-24.961	-8.029	27.571	1.00	30.46
ATOM	20632	OH2	WAT	3702	-19.843	6.476	47.329	1.00	25.78
ATOM	20633	OH2	WAT	3703	-22.522	14.871	2.427	1.00	24.66
ATOM	20634	OH2	WAT	3704	18.502	41.801	32.590	1.00	31.05
ATOM	20635	OH2	WAT	3705	-2.285	23.880	-16.394	1.00	41.88
ATOM	20636	OH2	WAT	3706	9.076	7.121	12.265	1.00	24.55
ATOM	20637	OH2	WAT	3707	22.472	16.738	36.131	1.00	28.80
ATOM	20638	OH2	WAT	3708	23.106	19.524	28.362	1.00	29.35
ATOM	20639	OH2	WAT	3709	20.660	-1.685	53.178	1.00	28.07
ATOM	20640	OH2	WAT	3710	47.414	-15.667	4.341	1.00	26.85
ATOM	20641	OH2	WAT	3711	35.787	-27.874	44.447	1.00	27.28
ATOM	20642	OH2	WAT	3712	-9.662	17.345	32.733	1.00	23.43
ATOM	20643	OH2	WAT	3713	-23.756	-18.816	55.654	1.00	27.14
ATOM	20644	OH2	WAT	3714	26.158	-26.333	67.093	1.00	25.71
ATOM	20645	OH2	WAT	3715	8.560	15.732	30.041	1.00	29.85
ATOM	20646	OH2	WAT	3716	47.272	25.719	59.342	1.00	32.35
ATOM	20647	OH2	WAT	3717	17.487	-9.851	-23.543	1.00	38.83
ATOM	20648	OH2	WAT	3718	-18.150	-9.422	11.110	1.00	24.14
ATOM	20649	OH2	WAT	3719	28.787	-33.914	15.756	1.00	21.48
ATOM	20650	OH2	WAT	3720	-2.825	9.854	58.691	1.00	29.62
ATOM	20651	OH2	WAT	3721	35.002	-40.084	48.371	1.00	34.58
ATOM	20652	OH2	WAT	3722	33.278	-36.251	12.757	1.00	26.17
ATOM	20653	OH2	WAT	3723	7.979	-20.213	33.159	1.00	18.19
ATOM	20654	OH2	WAT	3724	-18.398	28.206	46.922	1.00	33.34
ATOM	20655	OH2	WAT	3725	14.111	10.971	39.946	1.00	39.42
ATOM	20656	OH2	WAT	3726	20.899	-23.856	76.684	1.00	26.04
ATOM	20657	OH2	WAT	3727	12.600	-30.532	39.040	1.00	49.07
ATOM	20658	OH2	WAT	3728	0.214	-28.712	62.508	1.00	28.93
ATOM	20659	OH2	WAT	3729	29.212	-6.590	4.979	1.00	24.84
ATOM	20660	OH2	WAT	3730	-17.997	34.615	48.280	1.00	28.78
ATOM	20661	OH2	WAT	3731	21.283	23.102	66.907	1.00	26.75
ATOM	20662	OH2	WAT	3732	6.942	-10.436	70.783	1.00	30.98
ATOM	20663	OH2	WAT	3733	-13.774	4.431	49.066	1.00	24.84
ATOM	20664	OH2	WAT	3734	27.594	0.198	38.138	1.00	33.10

ATOM	20665	OH2	WAT	3735	20.794	11.104	12.321	1.00	27.55
ATOM	20666	OH2	WAT	3736	51.256	16.589	59.899	1.00	30.84
ATOM	20667	OH2	WAT	3737	22.183	-14.735	24.243	1.00	28.02
ATOM	20668	OH2	WAT	3738	44.096	-11.703	13.054	1.00	28.23
ATOM	20669	OH2	WAT	3739	18.453	-23.992	49.772	1.00	32.67
ATOM	20670	OH2	WAT	3740	10.967	16.592	34.278	1.00	31.80
ATOM	20671	OH2	WAT	3741	-9.858	9.563	20.327	1.00	20.75
ATOM	20672	OH2	WAT	3742	0.898	42.404	5.444	1.00	33.16
ATOM	20673	OH2	WAT	3743	3.933	-29.127	37.039	1.00	23.75
ATOM	20674	OH2	WAT	3744	36.228	-24.732	33.177	1.00	44.37
ATOM	20675	OH2	WAT	3745	3.159	7.122	37.485	1.00	29.60
ATOM	20676	OH2	WAT	3746	-10.921	2.269	51.233	1.00	27.65
ATOM	20677	OH2	WAT	3747	53.348	17.944	49.378	1.00	27.14
ATOM	20678	OH2	WAT	3748	7.606	22.178	51.653	1.00	40.12
ATOM	20679	OH2	WAT	3749	39.204	-34.717	27.730	1.00	24.03
ATOM	20680	OH2	WAT	3750	13.564	19.874	31.976	1.00	23.45
ATOM	20681	OH2	WAT	3751	-3.814	-23.747	36.732	1.00	26.02
ATOM	20682	OH2	WAT	3752	47.146	16.831	44.337	1.00	26.65
ATOM	20683	OH2	WAT	3753	13.930	-30.419	44.084	1.00	25.81
ATOM	20684	OH2	WAT	3754	9.861	-9.263	8.727	1.00	30.58
ATOM	20685	OH2	WAT	3755	23.683	32.606	59.197	1.00	32.94
ATOM	20686	OH2	WAT	3756	20.056	31.032	18.101	1.00	36.08
ATOM	20687	OH2	WAT	3757	-10.879	29.267	63.971	1.00	35.86
ATOM	20688	OH2	WAT	3758	4.038	-17.119	70.287	1.00	32.53
ATOM	20689	OH2	WAT	3759	-8.558	-23.729	1.645	1.00	40.40
ATOM	20690	OH2	WAT	3760	-9.873	16.727	21.573	1.00	27.26
ATOM	20691	OH2	WAT	3761	35.205	-25.918	42.503	1.00	30.87
ATOM	20692	OH2	WAT	3762	1.971	24.125	46.097	1.00	25.29
ATOM	20693	OH2	WAT	3763	53.325	-5.919	60.231	1.00	28.08
ATOM	20694	OH2	WAT	3764	10.053	18.498	6.878	1.00	33.94
ATOM	20695	OH2	WAT	3765	19.406	-29.642	19.266	1.00	28.80
ATOM	20696	OH2	WAT	3766	16.098	14.581	21.816	1.00	36.36
ATOM	20697	OH2	WAT	3767	-6.338	25.111	-7.103	1.00	28.61
ATOM	20698	OH2	WAT	3768	48.102	21.342	3.587	1.00	36.19
ATOM	20699	OH2	WAT	3769	-9.125	-25.882	48.916	1.00	39.40
ATOM	20700	OH2	WAT	3770	6.373	14.161	30.878	1.00	25.95
ATOM	20701	OH2	WAT	3771	18.098	37.562	30.318	1.00	29.01
ATOM	20702	OH2	WAT	3772	-4.272	-41.366	30.616	1.00	33.77
ATOM	20703	OH2	WAT	3773	-24.088	-15.889	26.441	1.00	33.05
ATOM	20704	OH2	WAT	3774	5.765	13.265	64.636	1.00	43.14
ATOM	20705	OH2	WAT	3775	-24.832	-2.210	12.951	1.00	32.20
ATOM	20706	OH2	WAT	3776	35.826	-23.014	22.538	1.00	27.58
ATOM	20707	OH2	WAT	3777	34.896	-31.558	17.395	1.00	35.22
ATOM	20708	OH2	WAT	3778	12.653	27.171	37.327	1.00	34.77
ATOM	20709	OH2	WAT	3779	26.085	8.717	7.225	1.00	27.52
ATOM	20710	OH2	WAT	3780	14.808	13.935	2.743	1.00	28.55
ATOM	20711	OH2	WAT	3781	7.008	41.307	8.799	1.00	21.88
ATOM	20712	OH2	WAT	3782	-29.750	-15.615	50.483	1.00	33.58
ATOM	20713	OH2	WAT	3783	42.042	7.501	10.339	1.00	32.40
ATOM	20714	OH2	WAT	3784	38.647	-37.049	26.470	1.00	27.62
ATOM	20715	OH2	WAT	3785	20.114	-10.501	38.007	1.00	33.84
ATOM	20716	OH2	WAT	3786	33.193	13.567	2.822	1.00	33.07
ATOM	20717	OH2	WAT	3787	41.018	-5.644	6.389	1.00	32.27
ATOM	20718	OH2	WAT	3788	1.927	13.217	17.887	1.00	23.25
ATOM	20719	OH2	WAT	3789	0.063	-39.198	5.123	1.00	40.67
ATOM	20720	OH2	WAT	3790	14.610	-2.645	49.001	1.00	23.41
ATOM	20721	OH2	WAT	3791	29.017	-41.765	34.853	1.00	29.00
ATOM	20722	OH2	WAT	3792	16.478	28.346	37.634	1.00	26.47
ATOM	20723	OH2	WAT	3793	2.863	-52.758	24.049	1.00	35.61
ATOM	20724	OH2	WAT	3794	-11.416	19.596	17.671	1.00	27.30
ATOM	20725	OH2	WAT	3795	32.706	-47.734	14.100	1.00	27.60
ATOM	20726	OH2	WAT	3796	3.656	6.892	17.830	1.00	29.51
ATOM	20727	OH2	WAT	3797	34.924	-21.245	-11.957	1.00	26.01
ATOM	20728	OH2	WAT	3798	-23.350	8.284	62.170	1.00	26.06
ATOM	20729	OH2	WAT	3799	21.618	5.515	19.392	1.00	30.34
ATOM	20730	OH2	WAT	3800	3.296	31.352	59.084	1.00	20.90
ATOM	20731	OH2	WAT	3801	11.215	-4.478	10.504	1.00	26.27
ATOM	20732	OH2	WAT	3802	17.465	28.856	49.985	1.00	32.00
ATOM	20733	OH2	WAT	3803	30.546	21.709	36.983	1.00	33.86
ATOM	20734	OH2	WAT	3804	-13.822	6.385	18.289	1.00	26.93
ATOM	20735	OH2	WAT	3805	40.370	26.108	57.308	1.00	33.23
ATOM	20736	OH2	WAT	3806	-18.730	19.657	0.767	1.00	34.40
ATOM	20737	OH2	WAT	3807	46.787	-11.310	5.258	1.00	33.73
ATOM	20738	OH2	WAT	3808	6.196	37.401	65.886	1.00	25.32
ATOM	20739	OH2	WAT	3809	33.898	-16.337	34.979	1.00	25.93
ATOM	20740	OH2	WAT	3810	-29.017	-32.892	18.794	1.00	34.70
ATOM	20741	OH2	WAT	3811	5.143	46.820	14.606	1.00	30.65

ATOM	20742	OH2	WAT	3812	7.988	-3.484	64.242	1.00	31.97
ATOM	20743	OH2	WAT	3813	5.432	-9.598	10.054	1.00	29.06
ATOM	20744	OH2	WAT	3814	19.243	6.256	-9.064	1.00	30.91
ATOM	20745	OH2	WAT	3815	43.635	-21.259	49.737	1.00	28.64
ATOM	20746	OH2	WAT	3816	-5.313	6.920	37.151	1.00	30.93
ATOM	20747	OH2	WAT	3817	4.504	24.582	-5.136	1.00	32.05
ATOM	20748	OH2	WAT	3818	10.520	3.740	-26.086	1.00	34.31
ATOM	20749	OH2	WAT	3819	62.545	14.377	25.314	1.00	43.40
ATOM	20750	OH2	WAT	3820	9.862	-15.964	13.553	1.00	29.65
ATOM	20751	OH2	WAT	3821	-0.387	-50.398	19.754	1.00	33.87
ATOM	20752	OH2	WAT	3822	2.304	-6.547	19.517	1.00	31.26
ATOM	20753	OH2	WAT	3823	41.519	-23.035	-7.279	1.00	42.38
ATOM	20754	OH2	WAT	3824	16.162	-20.007	75.071	1.00	26.45
ATOM	20755	OH2	WAT	3825	10.546	-21.372	6.968	1.00	26.45
ATOM	20756	OH2	WAT	3826	-11.694	-23.711	34.633	1.00	29.90
ATOM	20757	OH2	WAT	3827	14.382	-28.322	57.340	1.00	41.11
ATOM	20758	OH2	WAT	3828	33.815	-17.624	23.792	1.00	26.84
ATOM	20759	OH2	WAT	3829	-10.831	-0.831	4.970	1.00	24.36
ATOM	20760	OH2	WAT	3830	7.070	13.238	-20.561	1.00	30.58
ATOM	20761	OH2	WAT	3831	-1.423	-43.194	35.158	1.00	28.74
ATOM	20762	OH2	WAT	3832	16.519	-33.636	38.322	1.00	24.42
ATOM	20763	OH2	WAT	3833	17.520	22.887	73.186	1.00	33.05
ATOM	20764	OH2	WAT	3834	-2.872	-6.802	25.146	1.00	32.72
ATOM	20765	OH2	WAT	3835	18.475	-54.085	15.078	1.00	34.15
ATOM	20766	OH2	WAT	3836	41.800	-20.963	55.130	1.00	27.59
ATOM	20767	OH2	WAT	3837	-7.482	-4.152	30.462	1.00	29.41
ATOM	20768	OH2	WAT	3838	-17.203	-14.842	28.926	1.00	26.31
ATOM	20769	OH2	WAT	3839	23.941	17.177	27.224	1.00	23.52
ATOM	20770	OH2	WAT	3840	-17.547	18.133	-10.035	1.00	26.05
ATOM	20771	OH2	WAT	3841	-11.739	21.608	19.442	1.00	29.94
ATOM	20772	OH2	WAT	3842	-1.775	-31.809	56.054	1.00	29.15
ATOM	20773	OH2	WAT	3843	26.925	-28.472	40.778	1.00	31.95
ATOM	20774	OH2	WAT	3844	13.649	-18.971	8.359	1.00	28.20
ATOM	20775	OH2	WAT	3845	-1.364	38.574	55.862	1.00	34.22
ATOM	20776	OH2	WAT	3846	49.423	21.080	55.366	1.00	24.86
ATOM	20777	OH2	WAT	3847	-0.268	-12.614	7.599	1.00	38.86
ATOM	20778	OH2	WAT	3848	-4.305	-53.041	14.218	1.00	31.46
ATOM	20779	OH2	WAT	3849	12.067	-31.885	21.029	1.00	27.96
ATOM	20780	OH2	WAT	3850	1.046	-35.638	34.940	1.00	25.32
ATOM	20781	OH2	WAT	3851	-0.470	22.594	36.668	1.00	25.41
ATOM	20782	OH2	WAT	3852	-1.223	-1.667	38.153	1.00	24.06
ATOM	20783	OH2	WAT	3853	24.503	-1.990	58.124	1.00	28.69
ATOM	20784	OH2	WAT	3854	17.864	-13.588	29.400	1.00	23.88
ATOM	20785	OH2	WAT	3855	-28.291	-14.815	57.051	1.00	26.82
ATOM	20786	OH2	WAT	3856	20.622	-5.682	38.418	1.00	33.21
ATOM	20787	OH2	WAT	3857	-7.378	-24.739	4.250	1.00	36.23
ATOM	20788	OH2	WAT	3858	50.437	-6.107	52.678	1.00	25.23
ATOM	20789	OH2	WAT	3859	-32.230	-8.257	14.449	1.00	36.13
ATOM	20790	OH2	WAT	3860	24.061	-50.798	39.085	1.00	41.51
ATOM	20791	OH2	WAT	3861	29.292	7.952	26.061	1.00	36.29
ATOM	20792	OH2	WAT	3862	37.184	10.315	28.928	1.00	28.67
ATOM	20793	OH2	WAT	3863	36.355	-20.183	38.839	1.00	25.50
ATOM	20794	OH2	WAT	3864	-0.607	5.406	54.644	1.00	23.50
ATOM	20795	OH2	WAT	3865	11.302	-47.890	27.551	1.00	20.57
ATOM	20796	OH2	WAT	3866	-15.007	23.732	62.688	1.00	31.11
ATOM	20797	OH2	WAT	3867	42.181	-21.336	46.400	1.00	28.39
ATOM	20798	OH2	WAT	3868	32.816	16.299	26.091	1.00	28.85
ATOM	20799	OH2	WAT	3869	15.315	17.295	25.040	1.00	20.18
ATOM	20800	OH2	WAT	3870	7.289	-17.152	-3.029	1.00	29.44
ATOM	20801	OH2	WAT	3871	2.717	42.008	66.372	1.00	27.89
ATOM	20802	OH2	WAT	3872	34.914	-28.691	18.175	1.00	19.17
ATOM	20803	OH2	WAT	3873	18.616	13.919	13.090	1.00	32.78
ATOM	20804	OH2	WAT	3874	-18.466	-37.393	25.244	1.00	32.88
ATOM	20805	OH2	WAT	3875	12.836	43.517	24.922	1.00	31.86
ATOM	20806	OH2	WAT	3876	-25.602	12.369	0.165	1.00	27.51
ATOM	20807	OH2	WAT	3877	24.200	7.550	21.778	1.00	31.56
ATOM	20808	OH2	WAT	3878	-0.145	-8.461	22.519	1.00	26.05
ATOM	20809	OH2	WAT	3879	-23.514	-16.029	43.033	1.00	33.79
ATOM	20810	OH2	WAT	3880	9.948	50.191	-0.282	1.00	30.98
ATOM	20811	OH2	WAT	3881	2.703	-13.370	5.739	1.00	35.46
ATOM	20812	OH2	WAT	3882	20.914	25.963	17.772	1.00	28.78
ATOM	20813	OH2	WAT	3883	34.528	11.261	3.220	1.00	31.17
ATOM	20814	OH2	WAT	3884	16.134	-53.497	28.465	1.00	33.54
ATOM	20815	OH2	WAT	3885	-2.387	38.437	61.965	1.00	31.00
ATOM	20816	OH2	WAT	3886	43.549	-6.595	8.700	1.00	33.92
ATOM	20817	OH2	WAT	3887	35.170	-2.113	5.111	1.00	23.74
ATOM	20818	OH2	WAT	3888	-25.332	-27.546	33.584	1.00	32.68

ATOM	20819	OH2	WAT	3889	9.100	5.403	58.911	1.00	28.07
ATOM	20820	OH2	WAT	3890	-2.005	3.998	40.706	1.00	30.75
ATOM	20821	OH2	WAT	3891	-7.292	-27.296	1.998	1.00	38.01
ATOM	20822	OH2	WAT	3892	19.157	-5.927	15.506	1.00	31.49
ATOM	20823	OH2	WAT	3893	-18.372	23.651	43.344	1.00	37.66
ATOM	20824	OH2	WAT	3894	31.262	-51.492	16.861	1.00	24.13
ATOM	20825	OH2	WAT	3895	-26.499	9.900	3.726	1.00	39.65
ATOM	20826	OH2	WAT	3896	4.097	31.182	75.075	1.00	32.65
ATOM	20827	OH2	WAT	3897	2.547	4.374	39.181	1.00	30.86
ATOM	20828	OH2	WAT	3898	15.775	-19.780	-5.586	1.00	40.14
ATOM	20829	OH2	WAT	3899	25.581	-38.670	36.519	1.00	28.00
ATOM	20830	OH2	WAT	3900	-5.538	-11.112	0.952	1.00	35.04
ATOM	20831	OH2	WAT	3901	22.835	-4.612	16.494	1.00	29.12
ATOM	20832	OH2	WAT	3902	12.797	17.517	28.765	1.00	25.18
ATOM	20833	OH2	WAT	3903	4.058	-26.546	4.576	1.00	30.15
ATOM	20834	OH2	WAT	3904	29.516	-1.506	18.412	1.00	35.13
ATOM	20835	OH2	WAT	3905	8.641	-41.868	14.364	1.00	24.18
ATOM	20836	OH2	WAT	3906	17.066	16.097	14.366	1.00	23.39
ATOM	20837	OH2	WAT	3907	24.988	-0.851	-20.057	1.00	29.57
ATOM	20838	OH2	WAT	3908	-5.479	-33.973	28.883	1.00	27.02
ATOM	20839	OH2	WAT	3909	-35.530	-14.033	12.897	1.00	34.50
ATOM	20840	OH2	WAT	3910	-19.863	23.952	46.624	1.00	32.52
ATOM	20841	OH2	WAT	3911	11.250	-32.899	13.772	1.00	26.39
ATOM	20842	OH2	WAT	3912	18.533	26.176	31.373	1.00	26.30
ATOM	20843	OH2	WAT	3913	11.461	-44.385	34.329	1.00	36.66
ATOM	20844	OH2	WAT	3914	49.046	8.099	27.030	1.00	31.36
ATOM	20845	OH2	WAT	3915	-6.962	47.797	20.546	1.00	35.11
ATOM	20846	OH2	WAT	3916	-11.454	27.697	39.038	1.00	34.68
ATOM	20847	OH2	WAT	3917	-17.534	-6.063	-15.347	1.00	33.23
ATOM	20848	OH2	WAT	3918	-20.662	24.797	51.285	1.00	38.11
ATOM	20849	OH2	WAT	3919	-15.182	22.940	-8.359	1.00	32.06
ATOM	20850	OH2	WAT	3920	-5.318	20.153	-21.024	1.00	36.60
ATOM	20851	OH2	WAT	3921	29.287	32.027	23.219	1.00	29.21
ATOM	20852	OH2	WAT	3922	5.296	4.996	60.230	1.00	27.47
ATOM	20853	OH2	WAT	3923	0.917	-45.819	34.364	1.00	33.20
ATOM	20854	OH2	WAT	3924	3.488	6.382	55.858	1.00	25.52
ATOM	20855	OH2	WAT	3925	32.958	6.677	47.699	1.00	22.12
ATOM	20856	OH2	WAT	3926	-23.321	-11.254	27.790	1.00	35.27
ATOM	20857	OH2	WAT	3927	32.860	27.703	46.551	1.00	32.44
ATOM	20858	OH2	WAT	3928	-1.426	25.054	11.614	1.00	29.69
ATOM	20859	OH2	WAT	3929	-15.519	16.582	14.184	1.00	28.11
ATOM	20860	OH2	WAT	3930	43.595	-17.787	8.451	1.00	30.25
ATOM	20861	OH2	WAT	3931	23.063	6.691	36.902	1.00	33.20
ATOM	20862	OH2	WAT	3932	-9.032	1.177	27.078	1.00	34.25
ATOM	20863	OH2	WAT	3933	31.257	21.599	1.621	1.00	37.72
ATOM	20864	OH2	WAT	3934	38.507	-21.072	-10.854	1.00	25.61
ATOM	20865	OH2	WAT	3935	-23.025	12.738	-10.126	1.00	28.93
ATOM	20866	OH2	WAT	3936	22.699	-11.887	36.490	1.00	24.74
ATOM	20867	OH2	WAT	3937	17.275	-3.978	40.410	1.00	32.51
ATOM	20868	OH2	WAT	3938	7.861	15.365	34.973	1.00	44.23
ATOM	20869	OH2	WAT	3939	11.275	25.692	34.511	1.00	32.64
ATOM	20870	OH2	WAT	3940	-3.313	-38.226	29.667	1.00	33.46
ATOM	20871	OH2	WAT	3941	-7.692	-42.437	29.109	1.00	43.80
ATOM	20872	OH2	WAT	3942	-13.863	31.441	25.663	1.00	37.38
ATOM	20873	OH2	WAT	3943	-12.474	-21.794	42.793	1.00	34.53
ATOM	20874	OH2	WAT	3944	-3.638	41.102	62.525	1.00	37.56
ATOM	20875	OH2	WAT	3945	-18.227	25.816	55.937	1.00	30.59
ATOM	20876	OH2	WAT	3946	-15.985	-38.554	28.518	1.00	32.77
ATOM	20877	OH2	WAT	3947	34.669	-24.614	67.209	1.00	25.76
ATOM	20878	OH2	WAT	3948	54.577	15.128	52.543	1.00	33.52
ATOM	20879	OH2	WAT	3949	0.887	-14.120	4.073	1.00	36.74
ATOM	20880	OH2	WAT	3950	-15.097	35.053	18.039	1.00	37.02
ATOM	20881	OH2	WAT	3951	15.818	2.198	9.301	1.00	29.29
ATOM	20882	OH2	WAT	3952	-22.631	7.920	-14.709	1.00	23.92
ATOM	20883	OH2	WAT	3953	1.132	-17.635	32.905	1.00	29.71
ATOM	20884	OH2	WAT	3954	-24.033	-11.665	68.949	1.00	36.66
ATOM	20885	OH2	WAT	3955	31.947	-26.774	44.122	1.00	27.95
ATOM	20886	OH2	WAT	3956	27.559	-23.512	73.698	1.00	34.23
ATOM	20887	OH2	WAT	3957	40.516	20.972	40.033	1.00	37.10
ATOM	20888	OH2	WAT	3958	-21.789	-38.079	25.502	1.00	23.71
ATOM	20889	OH2	WAT	3959	27.138	35.825	22.971	1.00	29.72
ATOM	20890	OH2	WAT	3960	6.627	13.854	67.881	1.00	33.43
ATOM	20891	OH2	WAT	3961	-7.495	30.319	65.877	1.00	47.88
ATOM	20892	OH2	WAT	3962	39.945	-16.981	59.063	1.00	41.80
ATOM	20893	OH2	WAT	3963	10.451	-0.990	11.902	1.00	42.44
ATOM	20894	OH2	WAT	3964	-19.187	17.170	7.811	1.00	34.07
ATOM	20895	OH2	WAT	3965	55.677	8.381	57.068	1.00	34.33



ATOM	20896	OH2	WAT	3966	-21.554	13.101	7.475	1.00	24.12
ATOM	20897	OH2	WAT	3967	8.150	-27.034	50.434	1.00	39.84
ATOM	20898	OH2	WAT	3968	-18.831	9.121	46.959	1.00	30.55
ATOM	20899	OH2	WAT	3969	50.680	1.961	15.800	1.00	35.02
ATOM	20900	OH2	WAT	3970	35.217	-49.138	25.289	1.00	34.87
ATOM	20901	OH2	WAT	3971	-29.398	-8.042	11.100	1.00	31.40
ATOM	20902	OH2	WAT	3972	19.447	17.441	13.441	1.00	29.33
ATOM	20903	OH2	WAT	3973	-13.103	5.510	51.486	1.00	32.37
ATOM	20904	OH2	WAT	3974	35.572	-38.920	31.797	1.00	29.21
ATOM	20905	OH2	WAT	3975	42.490	-6.432	48.177	1.00	37.33
ATOM	20906	OH2	WAT	3976	55.908	7.452	19.225	1.00	41.37
ATOM	20907	OH2	WAT	3977	-23.545	12.346	-12.731	1.00	36.65
ATOM	20908	OH2	WAT	3978	29.194	-25.699	42.423	1.00	28.23
ATOM	20909	OH2	WAT	3979	24.546	4.768	33.624	1.00	34.00
ATOM	20910	OH2	WAT	3980	11.846	-56.638	27.547	1.00	36.56
ATOM	20911	OH2	WAT	3981	-11.970	-28.236	68.101	1.00	31.56
ATOM	20912	OH2	WAT	3982	34.680	0.521	51.130	1.00	26.18
ATOM	20913	OH2	WAT	3983	24.960	-27.638	15.617	1.00	35.13
ATOM	20914	OH2	WAT	3984	12.178	-47.174	31.370	1.00	34.11
ATOM	20915	OH2	WAT	3985	-12.298	-29.408	25.980	1.00	20.06
ATOM	20916	OH2	WAT	3986	-5.239	-4.738	26.410	1.00	30.64
ATOM	20917	OH2	WAT	3987	7.222	25.190	72.525	1.00	29.80
ATOM	20918	OH2	WAT	3988	-8.316	-17.085	4.491	1.00	32.12
ATOM	20919	OH2	WAT	3989	14.875	-37.478	62.713	1.00	36.51
ATOM	20920	OH2	WAT	3990	-0.318	-32.480	35.647	1.00	31.85
ATOM	20921	OH2	WAT	3991	26.991	6.700	24.647	1.00	28.93
ATOM	20922	OH2	WAT	3992	9.431	-16.988	4.689	1.00	31.20
ATOM	20923	OH2	WAT	3993	23.751	35.159	59.828	1.00	30.73
ATOM	20924	OH2	WAT	3994	-29.524	4.920	48.463	1.00	38.77
ATOM	20925	OH2	WAT	3995	-10.036	20.469	3.697	1.00	27.33
ATOM	20926	OH2	WAT	3996	13.430	-13.926	30.486	1.00	27.55
ATOM	20927	OH2	WAT	3997	-19.648	-30.155	4.910	1.00	27.29
ATOM	20928	OH2	WAT	3998	-1.861	2.934	16.906	1.00	22.81
ATOM	20929	OH2	WAT	3999	-6.312	-20.345	39.194	1.00	36.98
ATOM	20930	OH2	WAT	4000	0.162	16.385	31.968	1.00	40.85
ATOM	20931	OH2	WAT	4001	37.331	-42.808	29.079	1.00	35.13
ATOM	20932	OH2	WAT	4002	1.728	0.651	41.556	1.00	40.93
ATOM	20933	OH2	WAT	4003	7.955	-18.489	-7.241	1.00	41.83
ATOM	20934	OH2	WAT	4004	-2.324	-24.753	41.326	1.00	36.27
ATOM	20935	OH2	WAT	4005	-14.001	-19.794	-0.066	1.00	34.42
ATOM	20936	OH2	WAT	4006	19.662	-17.365	-18.983	1.00	32.80
ATOM	20937	OH2	WAT	4007	10.564	-14.743	-13.275	1.00	29.84
ATOM	20938	OH2	WAT	4008	15.113	15.031	39.754	1.00	30.34
ATOM	20939	OH2	WAT	4009	35.331	-21.374	20.527	1.00	31.28
ATOM	20940	OH2	WAT	4010	22.819	15.879	3.191	1.00	35.03
ATOM	20941	OH2	WAT	4011	-10.543	-46.147	9.362	1.00	38.45
ATOM	20942	OH2	WAT	4012	-16.594	34.561	56.964	1.00	28.81
ATOM	20943	OH2	WAT	4013	-10.146	32.295	63.758	1.00	37.29
ATOM	20944	OH2	WAT	4014	48.882	-7.382	51.071	1.00	37.37
ATOM	20945	OH2	WAT	4015	29.920	7.293	29.541	1.00	33.85
ATOM	20946	OH2	WAT	4016	19.625	-12.921	72.073	1.00	36.63
ATOM	20947	OH2	WAT	4017	13.368	-34.511	37.285	1.00	29.54
ATOM	20948	OH2	WAT	4018	-5.762	-7.177	29.837	1.00	31.23
ATOM	20949	OH2	WAT	4019	11.378	-38.956	13.198	1.00	31.14
ATOM	20950	OH2	WAT	4020	-7.090	-14.815	72.040	1.00	26.77
ATOM	20951	OH2	WAT	4021	2.252	22.804	-7.049	1.00	32.91
ATOM	20952	OH2	WAT	4022	-3.449	14.552	-24.093	1.00	36.29
ATOM	20953	OH2	WAT	4023	-8.112	3.142	-24.672	1.00	33.84
ATOM	20954	OH2	WAT	4024	18.026	-21.806	8.212	1.00	29.93
ATOM	20955	OH2	WAT	4025	60.020	17.539	13.000	1.00	44.67
ATOM	20956	OH2	WAT	4026	-26.370	-39.869	16.104	1.00	41.85
ATOM	20957	OH2	WAT	4027	16.764	19.360	52.609	1.00	28.33
ATOM	20958	OH2	WAT	4028	35.990	24.016	40.511	1.00	34.74
ATOM	20959	OH2	WAT	4029	57.458	10.198	50.817	1.00	32.75
ATOM	20960	OH2	WAT	4030	1.804	-47.829	30.519	1.00	26.50
ATOM	20961	OH2	WAT	4031	-10.626	-9.725	72.521	1.00	38.53
ATOM	20962	OH2	WAT	4032	43.991	-27.164	51.358	1.00	25.47
ATOM	20963	OH2	WAT	4033	-28.328	-39.519	17.822	1.00	37.78
ATOM	20964	OH2	WAT	4034	-29.987	-22.766	8.334	1.00	31.96
ATOM	20965	OH2	WAT	4035	2.256	13.057	-20.781	1.00	40.03
ATOM	20966	OH2	WAT	4036	25.989	-20.630	-14.613	1.00	32.18
ATOM	20967	OH2	WAT	4037	2.215	-18.558	69.068	1.00	34.21
ATOM	20968	OH2	WAT	4038	-36.511	-18.857	14.921	1.00	29.01
ATOM	20969	OH2	WAT	4039	2.072	25.410	67.667	1.00	25.96
ATOM	20970	OH2	WAT	4040	-4.117	-40.064	35.025	1.00	27.36
ATOM	20971	OH2	WAT	4041	3.196	26.403	17.608	1.00	32.65
ATOM	20972	OH2	WAT	4042	4.213	-11.022	21.040	1.00	25.61

ATOM	20973	OH2	WAT	4043	20.672	6.288	43.154	1.00	11.39
ATOM	20974	OH2	WAT	4044	24.230	13.675	24.481	1.00	17.87
ATOM	20975	OH2	WAT	4045	11.491	-12.039	39.730	1.00	16.52
ATOM	20976	OH2	WAT	4046	-2.958	-45.541	12.487	1.00	25.04
ATOM	20977	OH2	WAT	4047	21.124	0.639	54.913	1.00	19.00
ATOM	20978	OH2	WAT	4048	10.830	-15.313	20.740	1.00	17.94
ATOM	20979	OH2	WAT	4049	7.082	3.993	47.118	1.00	22.59
ATOM	20980	OH2	WAT	4050	-15.003	20.551	-11.225	1.00	23.46
ATOM	20981	OH2	WAT	4051	5.614	-3.781	42.911	1.00	18.68
ATOM	20982	OH2	WAT	4052	2.878	-5.383	14.276	1.00	21.86
ATOM	20983	OH2	WAT	4053	-28.975	0.173	43.415	1.00	25.48
ATOM	20984	OH2	WAT	4054	18.990	13.786	23.082	1.00	34.23
ATOM	20985	OH2	WAT	4055	14.863	15.999	12.872	1.00	22.69
ATOM	20986	OH2	WAT	4056	4.404	-26.590	36.835	1.00	20.51
ATOM	20987	OH2	WAT	4057	16.881	17.463	50.738	1.00	25.65
ATOM	20988	OH2	WAT	4058	7.759	-15.429	23.245	1.00	25.72
ATOM	20989	OH2	WAT	4059	1.948	-8.274	37.874	1.00	24.67
ATOM	20990	OH2	WAT	4060	-0.846	5.377	57.566	1.00	26.92
ATOM	20991	OH2	WAT	4061	11.838	-16.631	28.299	1.00	26.60
ATOM	20992	OH2	WAT	4062	8.670	-7.127	7.982	1.00	23.89
ATOM	20993	OH2	WAT	4063	7.943	4.878	13.325	1.00	29.72
ATOM	20994	OH2	WAT	4064	-7.873	-18.149	38.159	1.00	24.67
ATOM	20995	OH2	WAT	4065	19.946	-16.578	22.471	1.00	21.68
ATOM	20996	OH2	WAT	4066	26.755	-23.578	42.730	1.00	30.96
ATOM	20997	OH2	WAT	4067	19.813	-21.428	77.332	1.00	26.96
ATOM	20998	OH2	WAT	4068	-14.611	-27.813	24.596	1.00	22.85
ATOM	20999	OH2	WAT	4069	10.556	-42.741	36.183	1.00	30.39
ATOM	21000	OH2	WAT	4070	9.656	11.940	15.495	1.00	33.39
ATOM	21001	OH2	WAT	4071	15.586	-6.472	42.294	1.00	26.75
ATOM	21002	OH2	WAT	4072	21.817	15.587	28.120	1.00	36.02
ATOM	21003	OH2	WAT	4073	42.955	-29.610	52.935	1.00	30.64
ATOM	21004	OH2	WAT	4074	-5.163	-46.625	9.621	1.00	25.65
ATOM	21005	OH2	WAT	4075	-22.661	-39.337	16.988	1.00	29.68
ATOM	21006	OH2	WAT	4076	12.558	54.160	17.405	1.00	42.52
ATOM	21007	OH2	WAT	4077	14.558	-21.050	-8.217	1.00	35.25
ATOM	21008	OH2	WAT	4078	14.627	-21.292	77.322	1.00	26.15
ATOM	21009	OH2	WAT	4079	38.511	12.796	27.817	1.00	32.17
ATOM	21010	OH2	WAT	4080	6.634	-11.234	41.030	1.00	33.51
ATOM	21011	OH2	WAT	4081	19.800	4.002	-7.345	1.00	31.84
ATOM	21012	OH2	WAT	4082	-11.712	14.246	-16.297	1.00	37.20
ATOM	21013	OH2	WAT	4083	-1.181	12.792	-23.740	1.00	27.77
ATOM	21014	OH2	WAT	4084	-13.478	31.890	22.898	1.00	35.63
ATOM	21015	OH2	WAT	4085	-26.720	-9.960	27.431	1.00	31.59
ATOM	21016	OH2	WAT	4086	21.413	-27.440	21.028	1.00	46.92
ATOM	21017	OH2	WAT	4087	21.955	-19.353	-18.425	1.00	22.71
ATOM	21018	OH2	WAT	4088	12.468	-6.264	66.043	1.00	33.46
ATOM	21019	OH2	WAT	4089	13.249	-36.608	12.813	1.00	30.40
ATOM	21020	OH2	WAT	4090	31.960	-4.177	33.906	1.00	33.61
ATOM	21021	OH2	WAT	4091	7.583	-54.047	28.356	1.00	26.52
ATOM	21022	OH2	WAT	4092	0.614	21.888	44.748	1.00	35.94
ATOM	21023	OH2	WAT	4093	37.538	-5.989	37.641	1.00	32.64
ATOM	21024	OH2	WAT	4094	21.638	5.075	39.740	1.00	17.05
ATOM	21025	OH2	WAT	4095	28.273	-46.828	32.920	1.00	24.39
ATOM	21026	OH2	WAT	4096	11.835	-19.653	5.133	1.00	25.49
ATOM	21027	OH2	WAT	4097	-13.207	-44.364	8.973	1.00	37.09
ATOM	21028	OH2	WAT	4098	27.647	11.322	5.334	1.00	32.90
ATOM	21029	OH2	WAT	4099	10.259	-49.393	8.411	1.00	26.63
ATOM	21030	OH2	WAT	4100	4.110	-39.224	10.206	1.00	32.32
ATOM	21031	OH2	WAT	4101	23.743	-40.087	37.856	1.00	50.14
ATOM	21032	OH2	WAT	4102	-24.342	-7.153	30.038	1.00	30.58
ATOM	21033	OH2	WAT	4103	-0.619	11.724	-26.102	1.00	35.65
ATOM	21034	OH2	WAT	4104	-9.425	29.111	31.719	1.00	37.15
ATOM	21035	OH2	WAT	4105	32.807	-16.675	32.368	1.00	36.40
ATOM	21036	OH2	WAT	4106	14.318	14.720	0.095	1.00	27.76
ATOM	21037	OH2	WAT	4107	46.641	-18.008	5.068	1.00	28.99
ATOM	21038	OH2	WAT	4108	40.504	-35.415	30.077	1.00	30.68
ATOM	21039	OH2	WAT	4109	-21.465	1.072	-0.752	1.00	33.32
ATOM	21040	OH2	WAT	4110	46.498	-3.634	42.684	1.00	31.74
ATOM	21041	OH2	WAT	4111	18.777	-56.294	21.233	1.00	25.38
ATOM	21042	OH2	WAT	4112	4.896	-54.443	22.412	1.00	30.18
ATOM	21043	OH2	WAT	4113	-6.278	-12.430	3.805	1.00	29.79
ATOM	21044	OH2	WAT	4114	31.595	-33.290	16.444	1.00	31.75
ATOM	21045	OH2	WAT	4115	26.923	26.631	13.935	1.00	33.99
ATOM	21046	OH2	WAT	4116	-29.043	5.487	-7.898	1.00	45.43
ATOM	21047	OH2	WAT	4117	-16.588	-19.270	41.769	1.00	31.95
ATOM	21048	OH2	WAT	4118	6.070	9.092	39.715	1.00	30.14
ATOM	21049	OH2	WAT	4119	-3.516	-31.633	64.053	1.00	45.65

ATOM	21050	OH2	WAT	4120	52.126	-3.822	53.340	1.00	45.42
ATOM	21051	OH2	WAT	4121	46.817	-4.484	-14.025	1.00	46.99
ATOM	21052	OH2	WAT	4122	-12.592	3.190	66.991	1.00	35.76
ATOM	21053	OH2	WAT	4123	3.350	29.034	35.859	1.00	34.34
ATOM	21054	OH2	WAT	4124	0.606	-33.642	55.873	1.00	32.91
ATOM	21055	OH2	WAT	4125	-14.891	36.065	20.896	1.00	37.79
ATOM	21056	OH2	WAT	4126	-25.092	9.956	50.529	1.00	32.04
ATOM	21057	OH2	WAT	4127	24.645	3.578	21.558	1.00	33.84
ATOM	21058	OH2	WAT	4128	14.966	-15.407	27.047	1.00	37.48
ATOM	21059	OH2	WAT	4129	25.311	0.590	59.424	1.00	32.26
ATOM	21060	OH2	WAT	4130	5.921	2.186	48.638	1.00	28.21
ATOM	21061	OH2	WAT	4131	-0.194	-33.527	6.693	1.00	29.78
ATOM	21062	OH2	WAT	4132	-9.038	35.946	43.790	1.00	37.55
ATOM	21063	OH2	WAT	4133	17.435	-31.315	16.469	1.00	31.72
ATOM	21064	OH2	WAT	4134	30.359	5.569	52.711	1.00	23.92
ATOM	21065	OH2	WAT	4135	3.683	-12.556	17.583	1.00	19.93
ATOM	21066	OH2	WAT	4136	19.428	-23.653	47.102	1.00	24.33
ATOM	21067	OH2	WAT	4137	4.278	27.765	15.197	1.00	31.50
ATOM	21068	OH2	WAT	4138	6.578	-15.894	41.477	1.00	20.38
ATOM	21069	OH2	WAT	4139	28.301	-2.532	-0.522	1.00	24.30
ATOM	21070	OH2	WAT	4140	37.632	-34.367	20.394	1.00	26.22
ATOM	21071	OH2	WAT	4141	-17.982	10.709	12.655	1.00	28.44
ATOM	21072	OH2	WAT	4142	14.342	-13.857	17.205	1.00	25.59
ATOM	21073	OH2	WAT	4143	1.448	-15.812	37.733	1.00	25.27
ATOM	21074	OH2	WAT	4144	17.870	-19.299	7.566	1.00	26.09
ATOM	21075	OH2	WAT	4145	9.956	-49.449	29.174	1.00	28.96
ATOM	21076	OH2	WAT	4146	17.480	3.336	10.956	1.00	30.39
ATOM	21077	OH2	WAT	4147	8.517	-4.567	9.940	1.00	31.22
ATOM	21078	OH2	WAT	4148	-7.175	0.887	19.891	1.00	27.12
ATOM	21079	OH2	WAT	4149	28.989	41.203	15.263	1.00	29.63
ATOM	21080	OH2	WAT	4150	23.580	3.660	40.283	1.00	39.46
ATOM	21081	OH2	WAT	4151	13.879	13.838	16.264	1.00	28.18
ATOM	21082	OH2	WAT	4152	3.363	-53.015	26.505	1.00	26.41
ATOM	21083	OH2	WAT	4153	41.742	-31.794	51.912	1.00	29.88
ATOM	21084	OH2	WAT	4154	15.462	21.257	30.971	1.00	33.63
ATOM	21085	OH2	WAT	4155	13.429	-11.032	37.773	1.00	32.69
ATOM	21086	OH2	WAT	4156	4.765	-2.386	40.740	1.00	35.83
ATOM	21087	OH2	WAT	4157	19.023	-19.667	75.203	1.00	37.72
ATOM	21088	OH2	WAT	4158	19.034	-11.102	19.527	1.00	33.73
ATOM	21089	OH2	WAT	4159	-1.263	16.009	20.936	1.00	27.24
ATOM	21090	OH2	WAT	4160	-6.256	-45.054	6.939	1.00	41.51
ATOM	21091	OH2	WAT	4161	15.761	-28.451	54.807	1.00	36.09
ATOM	21092	OH2	WAT	4162	18.439	14.295	19.227	1.00	38.49
ATOM	21093	OH2	WAT	4163	-3.972	-20.387	37.814	1.00	31.16
ATOM	21094	OH2	WAT	4164	18.013	-1.645	54.687	1.00	30.47
ATOM	21095	OH2	WAT	4165	-15.633	33.909	22.604	1.00	31.22
ATOM	21096	OH2	WAT	4166	40.780	-8.375	40.145	1.00	32.51
ATOM	21097	OH2	WAT	4167	47.802	30.040	7.228	1.00	40.79
ATOM	21098	OH2	WAT	4168	-3.032	-32.860	34.864	1.00	27.66
ATOM	21099	OH2	WAT	4169	9.198	20.743	72.320	1.00	35.07
ATOM	21100	OH2	WAT	4170	11.975	-21.527	2.995	1.00	36.62
ATOM	21101	OH2	WAT	4171	-30.445	-6.086	44.089	1.00	34.70
ATOM	21102	OH2	WAT	4172	-5.261	-11.466	53.111	1.00	44.39
ATOM	21103	OH2	WAT	4173	-14.399	-20.387	40.817	1.00	30.20
ATOM	21104	OH2	WAT	4174	-10.618	-14.092	4.622	1.00	31.64
ATOM	21105	OH2	WAT	4175	14.591	-19.755	5.914	1.00	37.61
ATOM	21106	OH2	WAT	4176	19.353	-22.226	0.817	1.00	32.55
ATOM	21107	OH2	WAT	4177	-29.776	-5.355	39.885	1.00	30.32
ATOM	21108	OH2	WAT	4178	10.534	-13.068	-20.889	1.00	35.70
ATOM	21109	OH2	WAT	4179	-8.062	5.216	33.169	1.00	25.98
ATOM	21110	OH2	WAT	4180	-2.522	30.394	63.742	1.00	28.47
ATOM	21111	OH2	WAT	4181	46.009	3.328	33.070	1.00	35.13
ATOM	21112	OH2	WAT	4182	8.360	8.234	41.757	1.00	29.18
ATOM	21113	OH2	WAT	4183	42.814	-18.598	55.686	1.00	37.99
ATOM	21114	OH2	WAT	4184	-16.001	22.656	38.987	1.00	29.36
ATOM	21115	OH2	WAT	4185	10.259	-36.135	10.535	1.00	37.88
ATOM	21116	OH2	WAT	4186	-15.684	-9.143	-8.092	1.00	31.91
ATOM	21117	OH2	WAT	4187	-1.090	1.204	14.459	1.00	30.11
ATOM	21118	OH2	WAT	4188	44.289	2.682	29.166	1.00	28.69
ATOM	21119	OH2	WAT	4189	-0.552	-28.362	46.000	1.00	28.10
ATOM	21120	OH2	WAT	4190	13.135	-5.781	41.932	1.00	35.53
ATOM	21121	OH2	WAT	4191	19.734	30.686	49.844	1.00	35.70
ATOM	21122	OH2	WAT	4192	-36.378	-21.364	23.565	1.00	35.60
ATOM	21123	OH2	WAT	4193	17.251	0.350	12.314	1.00	23.98
ATOM	21124	OH2	WAT	4194	-10.271	-38.090	23.438	1.00	32.22
ATOM	21125	OH2	WAT	4195	-22.687	7.954	3.699	1.00	33.28
ATOM	21126	OH2	WAT	4196	-21.951	15.459	4.933	1.00	31.65

ATOM	21127	OH2	WAT	4197	-17.403	21.503	-8.388	1.00	32.40
ATOM	21128	OH2	WAT	4198	21.977	9.231	37.108	1.00	32.87
ATOM	21129	OH2	WAT	4199	37.419	17.868	21.884	1.00	46.31
ATOM	21130	OH2	WAT	4200	22.196	9.629	18.773	1.00	31.77
ATOM	21131	OH2	WAT	4201	16.692	-23.322	-5.245	1.00	36.91
ATOM	21132	OH2	WAT	4202	42.777	-33.719	53.939	1.00	35.86
ATOM	21133	OH2	WAT	4203	1.354	-2.239	14.757	1.00	37.10
ATOM	21134	OH2	WAT	4204	-26.952	-3.544	38.440	1.00	33.73
ATOM	21135	OH2	WAT	4205	29.239	-5.609	38.042	1.00	29.97
ATOM	21136	OH2	WAT	4206	43.138	0.368	25.089	1.00	32.24
ATOM	21137	OH2	WAT	4207	52.415	-7.788	51.945	1.00	30.80
ATOM	21138	OH2	WAT	4208	-2.220	0.196	40.301	1.00	41.13
ATOM	21139	OH2	WAT	4209	9.166	-36.364	8.279	1.00	32.28
ATOM	21140	OH2	WAT	4210	37.549	-23.883	19.085	1.00	35.85
ATOM	21141	OH2	WAT	4211	40.366	-43.408	18.178	1.00	35.18
ATOM	21142	OH2	WAT	4212	41.259	-39.426	17.720	1.00	35.03
ATOM	21143	OH2	WAT	4213	5.966	-16.794	26.485	1.00	33.99
ATOM	21144	OH2	WAT	4214	-0.504	24.436	38.709	1.00	31.34
ATOM	21145	OH2	WAT	4215	-31.816	-7.311	63.265	1.00	46.67
ATOM	21146	OH2	WAT	4216	31.602	-27.488	41.591	1.00	32.87
ATOM	21147	OH2	WAT	4217	22.491	8.396	33.548	1.00	37.01
ATOM	21148	OH2	WAT	4218	8.588	14.998	-7.928	1.00	34.59
ATOM	21149	OH2	WAT	4219	-5.071	39.648	64.146	1.00	36.17
ATOM	21150	OH2	WAT	4220	30.649	7.956	54.006	1.00	28.56
ATOM	21151	OH2	WAT	4221	-25.150	4.421	48.986	1.00	31.32
ATOM	21152	OH2	WAT	4222	4.603	-15.946	39.930	1.00	28.11
ATOM	21153	OH2	WAT	4223	-19.155	22.017	52.855	1.00	36.51
ATOM	21154	OH2	WAT	4224	-1.225	27.223	40.496	1.00	34.03
ATOM	21155	OH2	WAT	4225	9.323	-6.838	44.620	1.00	32.56
ATOM	21156	OH2	WAT	4226	-13.348	-40.907	25.217	1.00	36.02
ATOM	21157	OH2	WAT	4227	-29.811	-16.829	55.472	1.00	40.39
ATOM	21158	OH2	WAT	4228	1.208	13.403	-12.804	1.00	25.50
ATOM	21159	OH2	WAT	4229	31.515	42.188	14.797	1.00	36.19
ATOM	21160	OH2	WAT	4230	-22.435	-40.140	8.269	1.00	32.85
ATOM	21161	OH2	WAT	4231	4.884	-8.621	38.037	1.00	29.97
ATOM	21162	OH2	WAT	4232	41.136	-12.337	43.000	1.00	34.40
ATOM	21163	OH2	WAT	4233	22.346	33.851	68.574	1.00	47.30
ATOM	21164	OH2	WAT	4234	6.737	5.652	40.043	1.00	42.41
ATOM	21165	OH2	WAT	4235	5.196	-13.093	37.173	1.00	33.25
ATOM	21166	OH2	WAT	4236	5.818	-1.680	14.657	1.00	40.01
ATOM	21167	OH2	WAT	4237	-5.653	-17.045	3.161	1.00	38.26
ATOM	21168	OH2	WAT	4238	-22.623	5.252	41.872	1.00	32.25
ATOM	21169	OH2	WAT	4239	-13.321	-28.124	62.372	1.00	31.95
ATOM	21170	OH2	WAT	4240	-22.968	-6.416	35.146	1.00	22.64
ATOM	21171	OH2	WAT	4241	-27.579	-29.214	23.224	1.00	28.40
ATOM	21172	OH2	WAT	4242	-17.589	-1.229	71.448	1.00	40.90
ATOM	21173	OH2	WAT	4243	-1.591	-26.804	3.938	1.00	30.62
ATOM	21174	OH2	WAT	4244	11.074	-44.495	29.557	1.00	40.76
ATOM	21175	OH2	WAT	4245	-4.840	12.652	24.363	1.00	35.77
ATOM	21176	OH2	WAT	4246	47.599	-6.430	55.516	1.00	36.89
ATOM	21177	OH2	WAT	4247	-28.043	2.899	-0.586	1.00	42.68
ATOM	21178	OH2	WAT	4248	39.767	-37.649	16.094	1.00	42.67
ATOM	21179	OH2	WAT	4249	22.684	29.859	5.493	1.00	39.59
ATOM	21180	OH2	WAT	4250	-8.757	40.956	1.091	1.00	32.81
ATOM	21181	OH2	WAT	4251	40.067	-45.503	20.265	1.00	35.71
ATOM	21182	OH2	WAT	4252	26.027	1.180	40.411	1.00	31.92
ATOM	21183	OH2	WAT	4253	17.254	-13.580	32.677	1.00	37.95
ATOM	21184	OH2	WAT	4254	38.172	16.681	33.750	1.00	36.90
ATOM	21185	OH2	WAT	4255	-23.882	11.970	4.626	1.00	35.75
ATOM	21186	OH2	WAT	4256	24.484	29.594	17.149	1.00	36.63
ATOM	21187	OH2	WAT	4257	14.330	14.056	-7.663	1.00	32.35
ATOM	21188	OH2	WAT	4258	9.933	-26.844	55.259	1.00	34.01
ATOM	21189	OH2	WAT	4259	12.646	-9.356	-24.468	1.00	43.12
ATOM	21190	OH2	WAT	4260	40.273	-5.490	1.123	1.00	31.20
ATOM	21191	OH2	WAT	4261	17.384	-0.963	15.304	1.00	40.38
ATOM	21192	OH2	WAT	4262	7.357	1.338	55.482	1.00	34.09
ATOM	21193	OH2	WAT	4263	-7.701	28.368	40.512	1.00	31.74
ATOM	21194	OH2	WAT	4264	6.424	28.970	12.284	1.00	35.75
ATOM	21195	OH2	WAT	4265	28.293	-7.969	59.997	1.00	37.02
ATOM	21196	OH2	WAT	4266	33.471	-50.990	21.231	1.00	34.39
ATOM	21197	OH2	WAT	4267	36.422	1.406	67.198	1.00	37.21
ATOM	21198	OH2	WAT	4268	4.155	15.109	20.451	1.00	40.58
ATOM	21199	OH2	WAT	4269	-26.153	-3.024	-4.695	1.00	24.77
ATOM	21200	OH2	WAT	4270	30.499	-25.454	72.705	1.00	38.88
ATOM	21201	OH2	WAT	4271	4.763	51.788	4.914	1.00	27.90
ATOM	21202	OH2	WAT	4272	-11.498	46.346	14.162	1.00	32.61
ATOM	21203	OH2	WAT	4273	39.036	-19.110	16.994	1.00	32.98

ATOM	21204	OH2	WAT	4274	-6.998	36.928	26.870	1.00	43.35
ATOM	21205	OH2	WAT	4275	46.948	7.501	34.599	1.00	24.81
ATOM	21206	OH2	WAT	4276	50.983	-8.055	-5.708	1.00	40.55
ATOM	21207	OH2	WAT	4277	19.452	-39.708	61.023	1.00	34.30
ATOM	21208	OH2	WAT	4278	7.397	-30.621	39.404	1.00	33.65
ATOM	21209	OH2	WAT	4279	13.876	-1.133	12.109	1.00	41.50
ATOM	21210	OH2	WAT	4280	-0.160	20.020	-0.572	1.00	32.16
ATOM	21211	OH2	WAT	4281	45.793	-19.678	50.360	1.00	35.75
ATOM	21212	OH2	WAT	4282	47.155	27.281	14.452	1.00	38.21
ATOM	21213	OH2	WAT	4283	8.531	-12.525	69.846	1.00	42.83
ATOM	21214	OH2	WAT	4284	38.230	21.846	69.235	1.00	34.37
ATOM	21215	OH2	WAT	4285	49.714	-15.553	2.722	1.00	31.07
ATOM	21216	OH2	WAT	4286	8.106	30.082	54.050	1.00	33.73
ATOM	21217	OH2	WAT	4287	23.244	32.218	50.889	1.00	33.29
ATOM	21218	OH2	WAT	4288	17.581	21.404	35.067	1.00	43.77
ATOM	21219	OH2	WAT	4289	19.334	9.501	37.368	1.00	34.18
ATOM	21220	OH2	WAT	4290	-32.573	-19.162	54.321	1.00	42.08
ATOM	21221	OH2	WAT	4291	36.584	-48.023	13.443	1.00	37.99
ATOM	21222	OH2	WAT	4292	53.608	2.609	45.918	1.00	29.33
ATOM	21223	OH2	WAT	4293	-28.355	-3.724	11.537	1.00	36.13
ATOM	21224	OH2	WAT	4294	29.801	34.256	66.452	1.00	42.75
ATOM	21225	OH2	WAT	4295	37.391	14.555	21.327	1.00	29.90
ATOM	21226	OH2	WAT	4296	-0.961	22.126	13.597	1.00	30.11
ATOM	21227	OH2	WAT	4297	31.707	0.427	-19.155	1.00	40.22
ATOM	21228	OH2	WAT	4298	31.457	-20.855	-17.283	1.00	37.42
ATOM	21229	OH2	WAT	4299	25.101	-17.682	-14.424	1.00	32.68
ATOM	21230	OH2	WAT	4300	20.756	8.915	-7.538	1.00	38.06
ATOM	21231	OH2	WAT	4301	8.289	-46.227	33.339	1.00	36.23
ATOM	21232	OH2	WAT	4302	-30.592	-2.404	23.454	1.00	36.26
ATOM	21233	OH2	WAT	4303	-0.554	12.427	-16.863	1.00	29.01
ATOM	21234	OH2	WAT	4304	30.322	-21.630	-20.939	1.00	33.55
ATOM	21235	OH2	WAT	4305	-15.891	14.303	49.053	1.00	41.02
ATOM	21236	OH2	WAT	4306	-5.861	-24.996	39.922	1.00	37.54
ATOM	21237	OH2	WAT	4307	-18.592	5.594	59.709	1.00	44.08
ATOM	21238	OH2	WAT	4308	-13.782	-29.666	2.092	1.00	36.94
ATOM	21239	OH2	WAT	4309	-0.006	10.614	60.001	1.00	43.52
ATOM	21240	OH2	WAT	4310	32.762	-9.491	-23.904	1.00	33.22
ATOM	21241	OH2	WAT	4311	38.244	-3.752	7.396	1.00	36.21
ATOM	21242	OH2	WAT	4312	46.881	-21.498	-8.257	1.00	46.78
ATOM	21243	OH2	WAT	4313	29.381	-44.133	36.141	1.00	38.69
ATOM	21244	OH2	WAT	4314	44.697	-1.657	57.305	1.00	27.49
ATOM	21245	OH2	WAT	4315	3.764	-16.191	73.425	1.00	46.00
ATOM	21246	OH2	WAT	4316	1.552	2.561	15.840	1.00	39.61
ATOM	21247	OH2	WAT	4317	22.489	10.399	26.199	1.00	41.03
ATOM	21248	OH2	WAT	4318	-28.455	-3.493	20.182	1.00	29.54
ATOM	21249	OH2	WAT	4319	22.485	-54.018	16.709	1.00	30.01
ATOM	21250	OH2	WAT	4320	17.660	-27.711	52.097	1.00	38.58
ATOM	21251	OH2	WAT	4321	56.912	13.287	51.121	1.00	44.62
ATOM	21252	OH2	WAT	4322	-21.611	-37.255	5.058	1.00	25.63
ATOM	21253	OH2	WAT	4323	36.941	-3.556	52.524	1.00	35.09
ATOM	21254	OH2	WAT	4324	13.800	6.771	-21.931	1.00	38.56
ATOM	21255	OH2	WAT	4325	-30.772	-37.278	18.011	1.00	47.52
ATOM	21256	OH2	WAT	4326	-31.800	-32.961	17.765	1.00	43.84
ATOM	21257	OH2	WAT	4327	42.719	27.673	55.936	1.00	44.26
ATOM	21258	OH2	WAT	4328	45.545	11.091	29.384	1.00	35.10
ATOM	21259	OH2	WAT	4329	25.956	-50.998	23.510	1.00	34.18
ATOM	21260	OH2	WAT	4330	37.100	-20.795	16.046	1.00	44.28
ATOM	21261	OH2	WAT	4331	22.014	2.258	-19.556	1.00	33.51
ATOM	21262	OH2	WAT	4332	-22.317	18.441	5.383	1.00	36.71
ATOM	21263	OH2	WAT	4333	-10.019	-27.346	26.266	1.00	26.18
ATOM	21264	OH2	WAT	4334	-9.502	-49.756	12.668	1.00	45.74
ATOM	21265	OH2	WAT	4335	-20.898	-40.436	24.117	1.00	33.74
ATOM	21266	OH2	WAT	4336	-19.836	21.671	-18.554	1.00	46.45
ATOM	21267	OH2	WAT	4337	1.661	-6.925	34.463	1.00	36.93
ATOM	21268	OH2	WAT	4338	42.933	18.805	72.619	1.00	34.61
ATOM	21269	OH2	WAT	4339	-0.593	-4.255	21.944	1.00	32.00
ATOM	21270	OH2	WAT	4340	6.393	20.185	3.149	1.00	33.81
ATOM	21271	OH2	WAT	4341	15.614	24.362	5.634	1.00	46.42
ATOM	21272	OH2	WAT	4342	11.089	39.084	58.882	1.00	38.94
ATOM	21273	OH2	WAT	4343	30.841	-39.067	34.205	1.00	44.48
ATOM	21274	OH2	WAT	4344	35.060	-10.488	67.360	1.00	46.38
ATOM	21275	OH2	WAT	4345	3.613	-41.917	8.912	1.00	42.89
ATOM	21276	OH2	WAT	4346	-10.943	42.604	43.714	1.00	40.74
ATOM	21277	OH2	WAT	4347	16.343	51.120	19.143	1.00	39.64
ATOM	21278	OH2	WAT	4348	3.496	14.826	36.570	1.00	28.52
ATOM	21279	OH2	WAT	4349	46.266	37.133	2.322	1.00	37.96
ATOM	21280	OH2	WAT	4350	-11.265	42.564	22.557	1.00	35.16

ATOM	21281	OH2	WAT	4351	-17.123	13.946	41.412	1.00	37.12
ATOM	21282	OH2	WAT	4352	-29.129	-17.466	5.755	1.00	37.27
ATOM	21283	OH2	WAT	4353	31.454	-25.540	69.971	1.00	28.84
ATOM	21284	OH2	WAT	4354	29.447	-7.929	-21.989	1.00	31.86
ATOM	21285	OH2	WAT	4355	-16.353	12.502	47.101	1.00	30.21
ATOM	21286	OH2	WAT	4356	12.706	-13.430	21.716	1.00	35.82
ATOM	21287	OH2	WAT	4357	7.648	-13.329	-10.841	1.00	33.89
ATOM	21288	OH2	WAT	4358	44.573	15.736	67.094	1.00	35.84
ATOM	21289	OH2	WAT	4359	-12.313	23.838	12.610	1.00	35.05
ATOM	21290	OH2	WAT	4360	5.658	11.876	-23.706	1.00	41.15
ATOM	21291	OH2	WAT	4361	-14.272	-30.125	22.863	1.00	24.72
ATOM	21292	OH2	WAT	4362	-5.304	-48.318	25.587	1.00	39.16
ATOM	21293	OH2	WAT	4363	30.700	-35.265	45.218	1.00	38.38
ATOM	21294	OH2	WAT	4364	-28.043	-13.694	45.466	1.00	34.76
ATOM	21295	OH2	WAT	4365	36.395	-45.668	27.357	1.00	32.81
ATOM	21296	OH2	WAT	4366	45.633	-16.075	9.631	1.00	27.97
ATOM	21297	OH2	WAT	4367	5.551	1.705	57.364	1.00	37.70
ATOM	21298	OH2	WAT	4368	4.335	33.487	73.208	1.00	34.45
ATOM	21299	OH2	WAT	4369	-16.577	-5.490	-18.466	1.00	39.46
ATOM	21300	OH2	WAT	4370	44.958	-2.975	40.294	1.00	41.84
ATOM	21301	OH2	WAT	4371	-11.628	28.838	13.039	1.00	42.95
ATOM	21302	OH2	WAT	4372	40.841	14.763	27.236	1.00	45.00
ATOM	21303	OH2	WAT	4373	10.333	28.827	73.761	1.00	37.30
ATOM	21304	OH2	WAT	4374	1.040	49.430	3.854	1.00	40.14
ATOM	21305	OH2	WAT	4375	16.228	2.460	-24.363	1.00	29.98
ATOM	21306	OH2	WAT	4376	-10.817	-39.207	26.234	1.00	28.48
ATOM	21307	OH2	WAT	4377	-13.169	-26.151	69.385	1.00	42.50
ATOM	21308	OH2	WAT	4378	17.911	-12.633	35.282	1.00	30.10
ATOM	21309	OH2	WAT	4379	9.833	-18.262	-5.406	1.00	33.81
ATOM	21310	OH2	WAT	4380	-23.233	-9.084	34.300	1.00	30.72
ATOM	21311	OH2	WAT	4381	52.131	29.747	28.709	1.00	41.21
ATOM	21312	OH2	WAT	4382	1.375	6.960	58.261	1.00	35.75
ATOM	21313	OH2	WAT	4383	-31.130	-3.570	19.795	1.00	39.36
ATOM	21314	OH2	WAT	4384	37.817	3.006	69.575	1.00	41.33
ATOM	21315	OH2	WAT	4385	-4.563	-16.096	0.551	1.00	37.46
ATOM	21316	OH2	WAT	4386	4.037	-3.919	18.274	1.00	32.56
ATOM	21317	OH2	WAT	4387	-21.141	-1.984	26.707	1.00	33.58
ATOM	21318	OH2	WAT	4388	-22.717	1.730	-11.319	1.00	44.33
ATOM	21319	OH2	WAT	4389	38.993	-41.394	21.353	1.00	26.94
ATOM	21320	OH2	WAT	4390	35.457	-6.585	23.306	1.00	41.41
ATOM	21321	OH2	WAT	4391	-28.515	-11.015	44.907	1.00	44.09
ATOM	21322	OH2	WAT	4392	21.162	12.941	61.076	1.00	33.81
ATOM	21323	OH2	WAT	4393	-15.197	2.825	26.060	1.00	39.04
ATOM	21324	OH2	WAT	4394	-15.450	-25.101	26.034	1.00	25.87
ATOM	21325	OH2	WAT	4395	2.390	19.780	-0.161	1.00	34.76
ATOM	21326	OH2	WAT	4396	43.487	-25.747	59.438	1.00	35.57
ATOM	21327	OH2	WAT	4397	48.629	36.856	21.672	1.00	44.39
ATOM	21328	OH2	WAT	4398	17.100	12.356	40.201	1.00	40.21
ATOM	21329	OH2	WAT	4399	4.507	-10.245	-15.502	1.00	39.12
ATOM	21330	OH2	WAT	4400	-27.080	5.572	0.821	1.00	39.35
ATOM	21331	OH2	WAT	4401	-3.672	0.984	37.698	1.00	39.93
ATOM	21332	OH2	WAT	4402	-20.583	18.697	49.997	1.00	34.01
ATOM	21333	OH2	WAT	4403	39.072	-14.613	58.597	1.00	31.42
ATOM	21334	OH2	WAT	4404	29.709	12.185	3.398	1.00	44.25
ATOM	21335	OH2	WAT	4405	35.880	-22.841	12.910	1.00	33.52
ATOM	21336	OH2	WAT	4406	-35.845	-12.885	22.300	1.00	34.99
ATOM	21337	OH2	WAT	4407	15.319	26.997	5.574	1.00	32.51
ATOM	21338	OH2	WAT	4408	8.333	17.040	3.228	1.00	40.92
ATOM	21339	OH2	WAT	4409	-10.936	26.210	13.895	1.00	37.53
ATOM	21340	OH2	WAT	4410	55.583	6.631	16.381	1.00	45.01
ATOM	21341	OH2	WAT	4411	27.248	-0.852	16.193	1.00	32.03
ATOM	21342	OH2	WAT	4412	11.166	-30.270	54.430	1.00	35.34
ATOM	21343	OH2	WAT	4413	27.193	30.827	45.265	1.00	48.03
ATOM	21344	OH2	WAT	4414	1.816	-4.001	33.376	1.00	38.02
ATOM	21345	OH2	WAT	4415	-7.358	6.238	21.426	1.00	31.68
ATOM	21346	OH2	WAT	4416	23.525	29.907	2.579	1.00	40.00
ATOM	21347	OH2	WAT	4417	19.207	7.060	-17.753	1.00	45.08
ATOM	21348	OH2	WAT	4418	27.504	25.535	33.468	1.00	36.75
ATOM	21349	OH2	WAT	4419	6.892	-32.295	41.776	1.00	41.26
ATOM	21350	OH2	WAT	4420	17.067	-1.474	58.088	1.00	34.61
ATOM	21351	OH2	WAT	4421	22.907	29.267	14.656	1.00	39.78
ATOM	21352	OH2	WAT	4422	6.224	-49.951	10.824	1.00	28.84
ATOM	21353	OH2	WAT	4423	-16.207	35.901	25.434	1.00	40.39
ATOM	21354	OH2	WAT	4424	0.738	15.078	67.744	1.00	35.60
ATOM	21355	OH2	WAT	4425	-22.384	0.170	34.473	1.00	38.76
ATOM	21356	OH2	WAT	4426	52.264	32.015	13.016	1.00	52.37
ATOM	21357	OH2	WAT	4427	28.668	-23.464	-19.783	1.00	40.92

ATOM	21358	OH2	WAT	4428	29.624	26.370	37.226	1.00	43.83
ATOM	21359	OH2	WAT	4429	17.324	-33.128	69.819	1.00	36.99
ATOM	21360	OH2	WAT	4430	10.556	3.415	13.566	1.00	46.02
ATOM	21361	OH2	WAT	4431	8.523	41.333	58.843	1.00	39.73
ATOM	21362	OH2	WAT	4432	33.167	23.763	37.373	1.00	28.85
ATOM	21363	OH2	WAT	4433	15.195	-18.491	-17.090	1.00	47.32
ATOM	21364	OH2	WAT	4434	-23.836	2.684	36.535	1.00	38.09
ATOM	21365	OH2	WAT	4435	19.214	12.147	-5.475	1.00	35.97
ATOM	21366	OH2	WAT	4436	27.162	-7.740	67.562	1.00	31.45
ATOM	21367	OH2	WAT	4437	-20.971	-1.223	12.183	1.00	47.05
ATOM	21368	OH2	WAT	4438	19.674	12.470	63.556	1.00	44.37
ATOM	21369	OH2	WAT	4439	-1.525	40.553	27.756	1.00	41.21
ATOM	21370	OH2	WAT	4440	-18.654	1.585	28.426	1.00	32.42
ATOM	21371	OH2	WAT	4441	17.125	0.453	50.867	1.00	40.97
ATOM	21372	OH2	WAT	4442	46.616	-22.499	-3.435	1.00	40.16
ATOM	21373	OH2	WAT	4443	14.381	25.984	34.791	1.00	37.01
ATOM	21374	OH2	WAT	4444	-1.785	-17.781	2.660	1.00	35.38
ATOM	21375	OH2	WAT	4445	-34.581	-22.257	26.233	1.00	42.91
ATOM	21376	OH2	WAT	4446	24.684	23.141	0.831	1.00	35.73
ATOM	21377	OH2	WAT	4447	15.504	6.715	63.224	1.00	38.96
ATOM	21378	OH2	WAT	4448	19.904	21.033	71.538	1.00	43.76
ATOM	21379	OH2	WAT	4449	-11.227	22.621	-8.864	1.00	27.21
ATOM	21380	OH2	WAT	4450	22.345	0.986	14.851	1.00	34.11
ATOM	21381	OH2	WAT	4451	-10.539	-25.144	27.450	1.00	36.84
ATOM	21382	OH2	WAT	4452	16.140	25.932	32.224	1.00	35.40
ATOM	21383	OH2	WAT	4453	44.961	30.241	15.396	1.00	37.99
ATOM	21384	OH2	WAT	4454	34.177	-25.015	12.520	1.00	36.11
ATOM	21385	OH2	WAT	4455	-20.127	-20.201	41.569	1.00	32.33
ATOM	21386	OH2	WAT	4456	5.429	-56.224	24.411	1.00	42.80
ATOM	21387	OH2	WAT	4457	32.065	2.167	30.883	1.00	43.06
ATOM	21388	OH2	WAT	4458	5.091	42.861	7.752	1.00	39.50
ATOM	21389	OH2	WAT	4459	-21.209	-11.056	5.163	1.00	41.80
ATOM	21390	OH2	WAT	4460	19.803	9.836	20.265	1.00	40.87
ATOM	21391	OH2	WAT	4461	29.343	4.465	26.139	1.00	29.91
ATOM	21392	OH2	WAT	4462	10.788	42.451	0.401	1.00	42.38
ATOM	21393	OH2	WAT	4463	-7.021	-50.881	26.507	1.00	32.87
ATOM	21394	OH2	WAT	4464	-19.249	19.648	45.938	1.00	29.54
ATOM	21395	OH2	WAT	4465	48.159	7.324	9.609	1.00	39.08
ATOM	21396	OH2	WAT	4466	0.381	-40.577	8.688	1.00	37.54
ATOM	21397	OH2	WAT	4467	-25.910	-21.171	45.136	1.00	40.07
ATOM	21398	OH2	WAT	4468	-22.226	-2.802	33.260	1.00	35.07
ATOM	21399	OH2	WAT	4469	-4.952	49.029	23.144	1.00	45.50
ATOM	21400	OH2	WAT	4470	17.417	13.858	-4.051	1.00	38.03
ATOM	21401	OH2	WAT	4471	4.986	16.348	-15.614	1.00	30.12
ATOM	21402	OH2	WAT	4472	15.429	-22.524	1.908	1.00	36.21
ATOM	21403	OH2	WAT	4473	30.126	-47.999	29.175	1.00	23.74
ATOM	21404	OH2	WAT	4474	-19.245	3.242	52.458	1.00	33.15
ATOM	21405	OH2	WAT	4475	41.831	21.851	70.956	1.00	36.15
ATOM	21406	OH2	WAT	4476	25.141	-23.572	-20.451	1.00	35.05
ATOM	21407	OH2	WAT	4477	-23.878	4.412	-11.442	1.00	28.26
ATOM	21408	OH2	WAT	4478	42.991	-24.831	47.594	1.00	35.61
ATOM	21409	OH2	WAT	4479	-7.137	30.657	69.022	1.00	47.25
ATOM	21410	OH2	WAT	4480	17.754	1.462	57.307	1.00	35.59
ATOM	21411	OH2	WAT	4481	-7.414	21.345	-1.587	1.00	30.73
ATOM	21412	OH2	WAT	4482	49.815	21.351	58.077	1.00	37.51
ATOM	21413	OH2	WAT	4483	-15.491	44.459	7.923	1.00	50.41
ATOM	21414	OH2	WAT	4484	4.048	-22.551	5.047	1.00	36.58
ATOM	21415	OH2	WAT	4485	50.672	-12.564	-0.579	1.00	37.00
ATOM	21416	OH2	WAT	4486	2.078	-13.615	27.066	1.00	19.93
ATOM	21417	OH2	WAT	4487	-8.044	32.117	70.958	1.00	27.03
ATOM	21418	OH2	WAT	4488	0.643	-25.729	20.083	1.00	22.99
ATOM	21419	OH2	WAT	4489	17.072	17.442	39.782	1.00	27.80
ATOM	21420	OH2	WAT	4490	39.386	-43.716	22.448	1.00	25.25
ATOM	21421	OH2	WAT	4491	50.725	-6.820	55.355	1.00	43.84
ATOM	21422	OH2	WAT	4492	-19.456	26.078	48.234	1.00	34.33
ATOM	21423	OH2	WAT	4493	29.077	-49.519	9.320	1.00	36.75
ATOM	21424	OH2	WAT	4494	9.459	-18.005	2.269	1.00	34.78
ATOM	21425	OH2	WAT	4495	-19.163	36.702	49.212	1.00	32.59
ATOM	21426	OH2	WAT	4496	16.195	7.713	-20.690	1.00	46.10
ATOM	21427	OH2	WAT	4497	26.413	-5.902	59.650	1.00	37.00
ATOM	21428	OH2	WAT	4498	-22.773	19.390	2.650	1.00	33.05
ATOM	21429	OH2	WAT	4499	1.717	-30.055	70.167	1.00	44.59
ATOM	21430	OH2	WAT	4500	-16.732	24.403	-6.733	1.00	39.96
ATOM	21431	OH2	WAT	4501	46.171	-20.860	3.372	1.00	42.41
ATOM	21432	OH2	WAT	4502	3.145	16.448	33.272	1.00	30.34
ATOM	21433	OH2	WAT	4503	3.333	-30.786	61.572	1.00	33.43
ATOM	21434	OH2	WAT	4504	52.805	18.720	57.784	1.00	39.33

ATOM	21435	OH2	WAT	4505	31.760	-29.715	16.803	1.00	42.71
ATOM	21436	OH2	WAT	4506	27.158	-0.019	-2.171	1.00	47.55
ATOM	21437	OH2	WAT	4507	16.391	-6.880	13.945	1.00	27.93
ATOM	21438	OH2	WAT	4508	-11.329	8.325	33.144	1.00	35.74
ATOM	21439	OH2	WAT	4509	-34.565	-18.654	31.647	1.00	41.23
ATOM	21440	OH2	WAT	4510	8.119	2.472	45.194	1.00	35.82
ATOM	21441	OH2	WAT	4511	26.135	-26.276	1.441	1.00	43.41
ATOM	21442	OH2	WAT	4512	6.185	13.143	27.534	1.00	38.63
ATOM	21443	OH2	WAT	4513	15.834	-35.849	46.381	1.00	39.03
ATOM	21444	OH2	WAT	4514	52.437	25.745	6.497	1.00	41.04
ATOM	21445	OH2	WAT	4515	5.343	4.118	14.468	1.00	33.27
ATOM	21446	OH2	WAT	4516	53.362	6.451	39.554	1.00	38.27
ATOM	21447	OH2	WAT	4517	1.590	-4.443	-22.357	1.00	33.22
ATOM	21448	OH2	WAT	4518	49.556	-1.588	49.431	1.00	34.00
ATOM	21449	OH2	WAT	4519	-28.945	3.556	61.373	1.00	43.53
ATOM	21450	OH2	WAT	4520	-12.490	17.160	20.670	1.00	39.70
ATOM	21451	OH2	WAT	4521	40.918	-3.831	38.596	1.00	26.45
ATOM	21452	OH2	WAT	4522	10.399	-3.808	63.636	1.00	27.56
ATOM	21453	OH2	WAT	4523	-5.893	-42.115	6.281	1.00	43.08
ATOM	21454	OH2	WAT	4524	-30.106	-0.391	45.625	1.00	36.74
ATOM	21455	OH2	WAT	4525	41.777	0.678	-15.445	1.00	37.86
ATOM	21456	OH2	WAT	4526	14.086	15.973	37.228	1.00	29.86
ATOM	21457	OH2	WAT	4527	-22.519	27.041	47.602	1.00	45.34
ATOM	21458	OH2	WAT	4528	-11.576	3.521	-21.126	1.00	26.78
ATOM	21459	OH2	WAT	4529	-2.842	24.071	13.955	1.00	37.20
ATOM	21460	OH2	WAT	4530	36.314	-37.379	7.290	1.00	36.68
ATOM	21461	OH2	WAT	4531	8.937	41.604	63.559	1.00	44.67
ATOM	21462	OH2	WAT	4532	6.131	-15.555	37.510	1.00	35.99
ATOM	21463	OH2	WAT	4533	2.582	-30.744	64.478	1.00	33.23
ATOM	21464	OH2	WAT	4534	14.122	25.572	3.018	1.00	45.34
ATOM	21465	OH2	WAT	4535	29.990	5.778	-14.327	1.00	46.38
ATOM	21466	OH2	WAT	4536	17.429	-9.357	65.683	1.00	44.69
ATOM	21467	OH2	WAT	4537	6.231	-17.310	74.869	1.00	34.09
ATOM	21468	OH2	WAT	4538	11.057	11.153	65.196	1.00	43.68
ATOM	21469	OH2	WAT	4539	-13.688	21.726	22.028	1.00	48.02
ATOM	21470	OH2	WAT	4540	-31.249	-5.613	11.556	1.00	34.90
ATOM	21471	OH2	WAT	4541	-7.066	28.532	37.518	1.00	37.48
ATOM	21472	OH2	WAT	4542	23.003	24.425	17.044	1.00	35.33
ATOM	21473	OH2	WAT	4543	-3.469	27.584	73.860	1.00	39.05
ATOM	21474	OH2	WAT	4544	35.891	29.059	44.547	1.00	41.31
ATOM	21475	OH2	WAT	4545	18.800	-1.059	10.975	1.00	15.84
ATOM	21476	OH2	WAT	4546	-19.212	-0.670	24.770	1.00	29.47
ATOM	21477	OH2	WAT	4547	-16.028	-8.734	-10.667	1.00	40.15
ATOM	21478	OH2	WAT	4548	5.835	-15.346	20.455	1.00	23.89
ATOM	21479	OH2	WAT	4549	42.287	-4.979	41.504	1.00	27.98
ATOM	21480	OH2	WAT	4550	38.305	9.987	71.347	1.00	48.01
ATOM	21481	OH2	WAT	4551	-11.381	38.933	24.989	1.00	49.32
ATOM	21482	OH2	WAT	4552	-22.300	2.992	33.226	1.00	45.30
ATOM	21483	OH2	WAT	4553	6.931	-6.229	41.554	1.00	41.06
ATOM	21484	OH2	WAT	4554	19.682	-8.377	66.797	1.00	45.95
ATOM	21485	OH2	WAT	4555	36.306	-36.168	62.243	1.00	35.31
ATOM	21486	OH2	WAT	4556	54.304	7.728	12.240	1.00	34.26
ATOM	21487	OH2	WAT	4557	-28.537	7.332	49.621	1.00	40.13
ATOM	21488	OH2	WAT	4558	17.625	9.030	18.391	1.00	42.71
ATOM	21489	OH2	WAT	4559	-12.739	20.162	7.607	1.00	32.46
ATOM	21490	OH2	WAT	4560	-12.182	40.553	51.371	1.00	40.44
ATOM	21491	OH2	WAT	4561	17.431	-17.321	20.994	1.00	19.57
ATOM	21492	OH2	WAT	4562	9.509	14.689	21.947	1.00	18.00
ATOM	21493	OH2	WAT	4563	19.197	17.919	37.745	1.00	39.62
ATOM	21494	OH2	WAT	4564	8.296	41.620	10.968	1.00	40.32
ATOM	21495	OH2	WAT	4565	6.824	16.093	-17.793	1.00	45.81
ATOM	21496	OH2	WAT	4566	-31.651	-18.816	6.729	1.00	45.64
ATOM	21497	OH2	WAT	4567	-12.020	40.602	54.082	1.00	42.65
ATOM	21498	OH2	WAT	4568	-15.024	5.447	-20.431	1.00	37.03
ATOM	21499	OH2	WAT	4569	38.171	-25.627	-5.931	1.00	36.41
ATOM	21500	OH2	WAT	4570	11.961	16.248	26.219	1.00	31.42
ATOM	21501	OH2	WAT	4571	19.997	11.507	0.789	1.00	46.97
ATOM	21502	OH2	WAT	4572	-19.414	-31.785	29.916	1.00	33.12
ATOM	21503	OH2	WAT	4573	30.687	11.177	59.321	1.00	35.02
ATOM	21504	OH2	WAT	4574	-28.171	8.202	-0.223	1.00	45.38
ATOM	21505	OH2	WAT	4575	-23.907	-0.946	0.147	1.00	47.86
ATOM	21506	OH2	WAT	4576	36.420	-9.570	-20.098	1.00	46.95
ATOM	21507	OH2	WAT	4577	-9.302	25.934	-13.864	1.00	17.87
ATOM	21508	OH2	WAT	4578	27.518	-31.859	17.185	1.00	41.07
ATOM	21509	OH2	WAT	4579	9.163	15.018	25.314	1.00	36.50
ATOM	21510	OH2	WAT	4580	20.941	19.630	26.829	1.00	35.95
ATOM	21511	OH2	WAT	4581	29.489	-1.396	-4.410	1.00	31.96



ATOM	21512	OH2	WAT	4582	33.238	34.672	55.740	1.00	46.22
ATOM	21513	OH2	WAT	4583	-30.816	-5.894	17.338	1.00	49.72
ATOM	21514	OH2	WAT	4584	19.340	-28.094	76.769	1.00	34.85
ATOM	21515	OH2	WAT	4585	-2.179	15.453	30.418	1.00	40.59
ATOM	21516	OH2	WAT	4586	4.279	-17.186	76.947	1.00	48.31
ATOM	21517	OH2	WAT	4587	-0.036	-14.038	25.792	1.00	21.21
ATOM	21518	OH2	WAT	4588	29.067	-1.678	2.086	1.00	24.42
ATOM	21519	OH2	WAT	4589	-5.344	11.926	31.843	1.00	29.45
ATOM	21520	OH2	WAT	4590	-3.000	-4.011	-20.507	1.00	33.38
ATOM	21521	OH2	WAT	4591	16.416	-34.157	13.726	1.00	32.70
ATOM	21522	OH2	WAT	4592	42.496	30.507	62.292	1.00	31.93
ATOM	21523	OH2	WAT	4593	45.544	-3.876	0.068	1.00	37.84
ATOM	21524	OH2	WAT	4594	4.284	25.647	44.152	1.00	46.08
ATOM	21525	OH2	WAT	4595	28.936	0.551	-17.645	1.00	49.26
ATOM	21526	OH2	WAT	4596	28.309	-1.764	-7.219	1.00	34.20
ATOM	21527	OH2	WAT	4597	-0.139	-4.683	-4.704	1.00	40.66
ATOM	21528	OH2	WAT	4598	38.002	-39.295	28.778	1.00	37.91
ATOM	21529	OH2	WAT	4599	1.896	-10.498	26.814	1.00	40.28
ATOM	21530	OH2	WAT	4600	10.875	-31.201	46.215	1.00	46.59
ATOM	21531	OH2	WAT	4601	-17.789	11.593	42.545	1.00	40.33
ATOM	21532	OH2	WAT	4602	13.281	-34.722	45.502	1.00	43.03
ATOM	21533	OH2	WAT	4603	15.546	2.812	48.750	1.00	34.98
ATOM	21534	OH2	WAT	4604	-24.408	-0.962	68.815	1.00	34.14
ATOM	21535	OH2	WAT	4605	27.530	8.533	-3.110	1.00	46.99
ATOM	21536	OH2	WAT	4606	-5.207	-2.672	-4.358	1.00	37.50
ATOM	21537	OH2	WAT	4607	-6.846	-4.949	54.526	1.00	33.19
ATOM	21538	OH2	WAT	4608	-8.773	-28.684	66.448	1.00	41.34
ATOM	21539	OH2	WAT	4609	15.694	-33.293	11.109	1.00	42.89
ATOM	21540	OH2	WAT	4610	25.189	7.699	-4.734	1.00	38.08
ATOM	21541	OH2	WAT	4611	-25.724	-20.312	42.518	1.00	44.59
ATOM	21542	OH2	WAT	4612	30.872	-53.539	20.326	1.00	48.78
ATOM	21543	OH2	WAT	4613	7.005	-17.629	0.602	1.00	47.16
ATOM	21544	OH2	WAT	4614	-20.076	21.041	2.976	1.00	50.56
ATOM	21545	OH2	WAT	4615	49.790	17.372	-5.207	1.00	53.06
ATOM	21546	OH2	WAT	4616	45.033	0.193	-5.524	1.00	36.67
ATOM	21547	OH2	WAT	4617	3.384	12.364	26.877	1.00	47.24
ATOM	21548	OH2	WAT	4618	-23.460	-11.122	39.780	1.00	36.40
ATOM	21549	OH2	WAT	4619	36.510	-18.235	-14.040	1.00	44.41
ATOM	21550	OH2	WAT	4620	27.674	11.270	60.667	1.00	36.19
ATOM	21551	OH2	WAT	4621	-25.671	-31.027	5.734	1.00	35.54
ATOM	21552	OH2	WAT	4622	-33.918	-10.844	11.974	1.00	43.33

END

Table 2 Crystallographic data quality, phasing, refinement and model quality

Space group & Cell parameters (Å)			$P2_1$ $a = 87.8$ $b = 155.4$ $c = 209.9$ $\beta = 99.3^\circ$		$P2_1$ $a = 86.1$ $b = 157.2$ $c = 100.2$ $\beta = 97.4^\circ$	
Data quality						
Data set	Edge	Peak	Remote	Native		
Wavelength (Å)	0.97939	0.97927	0.9393	0.979		
Limiting resolution (Å)	3.1	2.8	2.8	1.8		
$R_{\text{free}}^a$	0.161	0.120	0.131	0.103		
$\langle I/\sigma I \rangle$ (high resolution)	12.8 (2.6)	25.6 (6.0)	13.3 (3.3)	15.9 (2.1)		
Completeness	0.994	0.999	1.0	0.94		
No. unique reflexions (multiplicity)	100 734 (3.5)	136 609 (10.6)	136 664 (3.3)	229 086 (4.5)		
Experimental $f/f'$ (electrons) <sup>b</sup>	-9.9 / 2.9	-8.6 / 5.4	-1.3 / 3.2	-		
Refinement (40 – 1.7 Å)						
$R_{\text{cryst}}^c$	0.229 (highest resolution: 0.286)					
$R_{\text{free}}^d$	0.263 (		0.318)			
No. reflexions: working / test <sup>d</sup>	206 168 / 22 908					
No. atoms (residues)	19 820 (2 640)					
No. waters	1 610					
Model quality						
Ramachandran plot: % residues favourable		90.4				
% unfavourable		None				
R.m.s. deviations:	Bond lengths	0.006				
	Bond angles	1.2				
	Dihedral angles	22.1				

<sup>a</sup>  $R_{\text{cryst}} = [\sum_h w \Sigma_i |F_o| - |F_c|] / \sum_h \Sigma_i |F_o|$  and  $\langle I/\sigma I \rangle = [\sum_h |F_o| / n_h] / n_h$ . This is the multiplicity-weighted  $R_{\text{sym}}$  [Diederichs, 1997 #155]

<sup>b</sup> Estimates from CHOOCH (Evans, 1999)

<sup>c</sup>  $R_{\text{cryst}} = \Sigma |F_o| |F_c| / \Sigma |F_o|^2$ ;  $F_o$  and  $F_c$  are observed and calculated structure factor amplitudes.

<sup>d</sup>  $R_{\text{free}}$ : cross-validation  $R_{\text{cryst}}$ , i.e. calculated using randomly selected test data not used in refinement.